ORDER NO. VSD9812M614

# Service Manual

Sec. 1 | General Description

Sec. 2 Adjustment Procedures

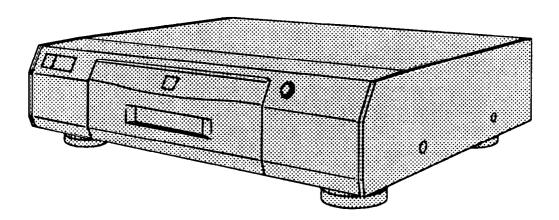
Sec.3 Block / Schematic /Circuit Board Diagrams

Sec. 4 Exploded Views &
Replacement Parts Lists

Panasonic Mini DY DY PAL

**Digital Cassette Video Recorder** 

AG-DV2700 5



Weight and dimensions shown are approximate. Specifications are subject to change without notice.

© 1998 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

### **△ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

### AG-DV2700E

**Power Source:** 220-240 V AC 50/60 Hz

Power Consumption: 36 watts

Power Consumption When in Standby Mode: Approx. 10 watts

Video Recording System: 2 rotary heads, Digital Component

Audio Recording System: PCM Digital Recording; 16 bit (48 kHz/2ch), 12 bit (32 kHz/4ch)

Video Heads: 2 heads

**Tape Speed:** SP; 18.831mm/sec. LP; 12.568 mm/sec.

**Tape Format:** DV/ Mini DV tape **Record/Playback Time:** SP; 120 min. LP; 180 min. with DV1

Record/Playback Time: SP; 120 min. LP; 180 min. with DV120 SP; 60 min. LP; 90 min. with DVM60

FF/REW Time: approx. 70 sec. with DV120

approx. 50 sec. with DVM60

**VIDEO** 

**Television System:** CCIR; 625 lines, 50 fields, PAL colour signal

Modulation System: Digital Compornent recording

Input Level: AV1/AV2; 1.0 Vp-p, 75 ohm, terminated

VIDEO IN (AV3) (PHONO); 1.0 Vp-p, 75 ohm, terminated S-VIDEO IN (AV3); 1.0 Vp-p, 75 ohm, terminated AV1/AV2; 1.0 Vp-p, 75 ohm, terminated VIDEO OUT (AV3) (PHONO); 1.0 Vp-p, 75 ohm, terminated

S-VIDEO OUT (AV3); 1.0 Vp-p, 75 ohm, terminated RF Modulated; UHF channel (21-69), 75 ohm

**AUDIO** 

**Output Level:** 

Input Level: AV1/AV2; —6 dBV, more than 10 kohm

AUDIO IN (AV3) (PHONO); —6 dBV, more than 10 kohm

MIC(M3); -70 dBV,

Output Level: AV1/AV2; —6 dBV, less than 1 kohm

AUDIO OUT (PHONO); —6 dBV, less than 1 kohm HEAD PHONES; —30 dBV, 8ohm

Audio Track: 16 bit (48 kHz/2ch); 1 track, 2 channels

12 bit (32 kHz/4ch); 2 tracks, 4 channels

Digital Still Picture: Digital Still Picture Output, Control Signal Input/Output (Transfer rate; max. 115 kbps)

Digital Interface:DV Terminal (i.LINK, 4-pin)Video Horizontal Resolution:Colour; more than 500 linesAudio Frequency Response:20 Hz-20 kHz (16 bit )

20 Hz-14.5 kHz (12 bit )

Operating Temperature:  $5^{\circ}\text{C}-40^{\circ}\text{C}$ Operating Humidity: 35%-80%

Weight: 35%-8

**Dimensions:** 445 (W) $\times$ 123 (H) $\times$ 373.5 (D) mm

Standard Accessories: 1 pc. RF Coaxial Cable

1 pc. Remote Controller 4 pcs. "R6" size batteries 3 pcs. AC Mains Leads

pc. DV Cable
 pc. Edit Cable
 pc. S-Video Cable
 pc. AV Cables

1 pc. Editing Controller Cable1 pc. Digital Video Head Cleaner

2 pcs. 21-pin Phono Transformer Adaptors (Input/Output)

Attached Parts: 1 pc. Modular Cap

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

### AG-DV2700B

**Power Source:** 220-240 V AC 50/60 Hz

**Power Consumption:** 36 watts

**Power Consumption When in Standby Mode:** Approx. 10 watts

**Video Recording System:** 2 rotary heads, Digital Component

Audio Recording System: PCM Digital Recording; 16 bit (48 kHz/2ch), 12 bit (32 kHz/4ch)

. The sold state of the control of t

Video Heads: 2 heads

Tape Speed: SP: 18.831mm/sec. LP; 12.568 mm/sec.

**Tape Format:** DV/ Mini DV tape

Record/Playback Time: SP; 120 min. LP; 180 min. with DV120

SP; 60 min. LP; 90 min. with DVM60 FF/REW Time: approx. 70 sec. with DV120

approx. 50 sec. with DVM60

**VIDEO** 

**Television System:** CCIR; 625 lines, 50 fields, PAL colour signal

Modulation System: Digital Compornent recording

Input Level: AV1/AV2: 1.0 Vp-p, 75 ohm, terminated

VIDEO IN (AV3) (PHONO); 1.0 Vp-p, 75 ohm, terminated S-VIDEO IN (AV3); 1.0 Vp-p, 75 ohm, terminated AV1/AV2; 1.0 Vp-p, 75 ohm, terminated VIDEO OUT (AV3) (PHONO): 1.0 Vp-p, 75 ohm, terminated

S-VIDEO OUT (AV3); 1.0 Vp-p, 75 ohm, terminated RF Modulated; UHF channel (21-68), 75 ohm

AUDIO

**Output Level:** 

Input Level: AV1/AV2;  $-6 \, dBV$ more than 10 kohm

AUDIO IN (AV3) (PHONO); -6 dBV,more than 10 kohm

MIC(M3); -70 dBV,

**Output Level:** AV1/AV2: -6 dBV. less than 1 kohm

AUDIO OUT (PHONO); -6 dBV, less than 1 kohm **HEAD PHONES:** -30 dBV.8ohm

**Audio Track:** 16 bit (48 kHz/2ch); 1 track. 2 channels

12 bit (32 kHz/4ch); 2 tracks, 4 channels

**Digital Still Picture:** Digital Still Picture Output, Control Signal Input/Output (Transfer rate; max. 115 kbps)

**Digital Interface:** DV Terminal (i.LINK, 4-pin) Video Horizontal Resolution: Colour; more than 500 lines **Audio Frequency Response:** 20 Hz-20 kHz (16 bit )

20 Hz-14.5 kHz (12 bit )

**Operating Temperature:** 

5°C-40°C Operating Humidity: 35%-80%

Weight: 7 kg

**Dimensions:** 445 (W)×123 (H)×373.5 (D) mm

Standard Accessories: 1 pc. RF Coaxial Cable 1 pc. Remote Controller

4 pcs. "R6" size batteries 1 pc. AC Mains Lead 1 pc. DV Cable 1 pc. Edit Cable 1 pc. S-Video Cable 1 pc. AV Cables

1 pc. Editing Controller Cable 1 pc. Digital Video Head Cleaner

2 pcs. 21-pin Phono Transformer Adaptors (Input/Output)

1 pc. Clamp Filter

**Attached Parts:** 

1 pc. Modular Cap

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

### **INTRODUCTION**

This Service Manual contains technical information such as General Description, Adjustment Procedures, Block Diagrams / Schematic Diagrams / C.B.A. Layout and Exploded Views / Parts Lists which service personnel to understand and service the Panasonic Digital Video Cassette Recorder model AG-DV2700E/B.

### **Panasonic**

Note: Some parts of this service manual have been made based on NV-DV10000. The portion or section mentioned NV-DV10000B is equivalent to AG-DV2700B and NV-DV10000EC is AG-DV2700E.

### **CONTENTS**

SECTION1 GENERAL DESCRIPTION	1-1
1.SERVICE INFORMATION  11.CHANNEL MEMORY INITIALIZATION  2.SERVICE POSITION  2-1.EXTENTION CABLES  2-2.SERVICE POSITION  2-3.PREPARATION FOR ELECTRICAL ADJUSTMENT	1-1
1-1.CHANNEL MEMORY INITIALIZATION · · · · · · · · · · · · · · · · · · ·	1-1
2.SERVICE POSITION · · · · · · · · · · · · · · · · · · ·	1-2
2-1.EXTENTION CABLES · · · · · · · · · · · · · · · · · · ·	1-2
2-2.SERVICE POSITION · · · · · · · · · · · · · · · · · · ·	1-2
2-3.PREPARATION FOR ELECTRICAL ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	1-3
3.SERVICE INFORMATION DISPLAY······	1-9
3-1.SET SERVICE MODE · · · · · · · · · · · · · · · · · · ·	1-9
3.SERVICE INFORMATION DISPLAY 3-1.SET SERVICE MODE 3-2.SELF-TEST MODE 5-2.SELF-TEST MODE 5-3.SELF-TEST MODE 5-3.SELF-TEST MODE	1-11
4.REMOVAL OF THE CASSETTE TAPE	1-12
4-1.BATTERY OPERATION · · · · · · · · · · · · · · · · · · ·	1-12
4-2.HAND OPERATION	1-12
5.OPERATING INSTRUCTIONS · · · · · · · · · · · · · · · · · · ·	1-14
SECTION2 ADJUSTMENT PROCEDURES	2-1
1.DISASSEMBLY/ASSEMBLY PROCEDURES FOR CABINET PARTS, C.B.A. AND MECHANISM UNIT · · · · ·	2-1
1-1.DISASSEMBLE FLOW CHART FOR CABINET PARTS, C.B.A. AND MECHANISM UNIT	2-1
1-2 DISASSEMBLY/ASSEMBLY PROCEDURES/FOR CABINET PARTS C.B.A. AND MECHANISM UNIT) · ·	2-2
2.DISASSEMBLY/ASSEMBLY PROCEDURES FOR MECHANISM · · · · · · · · · · · · · · · · · · ·	2-4
2.DISASSEMBLY/ASSEMBLY PROCEDURES FOR MECHANISM	2-4
2-2.DISASSEMBLY/ASSEMBLY PROCEDURES(FOR MECHANICAL PARTS) · · · · · · · · · · · · · · · · · · ·	2-5
1.MECHANISM CONNECTION C.B.A. · · · · · · · · · · · · · · · · · ·	2-5
2.TRAY UNIT · · · · · · · · · · · · · · · · · · ·	2-6
2-2.DISASSEMBLY/ASSEMBLY PROCEDURES(FOR MECHANICAL PARTS)  1.MECHANISM CONNECTION C.B.A.  2.TRAY UNIT  3.MECHANICAL PARTS	2-8
4.MECHANICAL ADJUSTMENT  4-1.NAME OF TAPE TRANSPORTATION	2-18
4-1.NAME OF TAPE TRANSPORTATION · · · · · · · · · · · · · · · · · · ·	2-18
4-2.CLEANING PROCEDURES · · · · · · · · · · · · · · · · · · ·	2-18
4-3.REEL OFFSET AND TENTION ARM ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-18
4-4.T4,S4 AND S5 POSTHEIGHT PRE-ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-19
4-5.TAPE PASS ADJUSTMENT PROCEDURES  5.ELECTRICAL ADJUSTMENT  1.SERVO CIRCUIT  1-1.T AND S REEL OFFSET ADJUSTMENT	2-19
5.ELECTRICAL ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-23
1.SERVO CIRCUIT · · · · · · · · · · · · · · · · · · ·	2-23
1-1.T AND S REEL OFFSET ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-23
1-2 TENTION ABM OFFSET ADJUSTMENT	2-23
1-3.TENTION ARM NEUTRAL ADJUSTMENT ······	2-23
1-4 TENTION ARM PLAY VOLTAGE ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-24
1-5.COMFIRMATION OF REV POSITION OF THE TENTION ARM · · · · · · · · · · · · · · · · · · ·	2-24
1-5.COMFIRMATION OF REV POSITION OF THE TENTION ARM  1-6.TENTION REGULATOR SPRING ADJUSTMENT  1-7.COMFIRMATION OF REV TENTION  1-8.SUPPLY AND TAKE-UP PHOTO SENSOR SENSITIVITY ADJUSTMENT	2-24
1-7.COMFIRMATION OF REV TENTION · · · · · · · · · · · · · · · · · · ·	2-24
1-8.SUPPLY AND TAKE-UP PHOTO SENSOR SENSITIVITY ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-25
2.VIDEO CIRCUIT	2-26
2-1.PHASE DIFFERENCE OF Y/C SEPA. V BLANKING PULSE ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	
2-2.PHASE DIFFERENCE OF Y/C SEPA. H BLANKING PULSE ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-26
2-3.PAL ENCODER FREE RUN FREQUENCY ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-26
2-4.EDIT OSD COLOUR BURST CLOCK FREQUENCY ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-26
2-5.EDIT OSD DOT CLOCK FREQUENCY ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-26
2-6.PHASE DIFFERENCE OF COLOUR CTL BURST GATE PULSE ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	
2-7 F-F V LEVEL AD HISTMENT	2-26

3.AUDIO CIRCUIT	2-26
3-1.LEVEL METER ADJUSTMENT · · · · · · · · · · · · · · · · · · ·	2-26
6.SPECIAL FIXTURES & TOOLS · · · · · · · · · · · · · · · · · · ·	2-27
SECTION3 BLOCK/SCHEMATIC/CIRCUIT BOARD DIAGRAMS	31
3-1.ABBREVIATIONS · · · · · · · · · · · · · · · · · · ·	2 1
3-2.OVERALL BLOCK DIAGRAM ······	Q-1
3-3.SYSTEM CONTROL & SERVO BLOCK DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-7
3-4.AUDIO BLOCK DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-9
3-4.AUDIO BLOOK DIAGRAM	3-14
3-5.INPUT / OUTPUT BLOCK DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-17
3-6.VIDEO BLOCK DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-19
3-7.SOLENOID BLOCK DIAGRAM	3-21
3-8 POWER SUPPLY SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-23
3-9.LOADING SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM	3-25
3-10.MOTOR DRIVE SCHEMATIC DIAGRAM	3-28
3-11.DRIVE SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-29
3-12.SOLENOID SECTION INMECHANISM DRIVE SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-33
3-13. POWER SECTION IN MAIN SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	
3-14.EDIT/SYSTEM CONTROL & SERVO SECTION IN MAIN, 5P JACK SCHEMATIC DIAGRAMS	
3-15.AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	
3-16.RF SECTION IN MAIN SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-51
3-17.ANALOG Y/C SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-53
3-18.HEAD AMP SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-60
3-19.FRONT (L) SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-61
3-20.FRONT (R) SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-62
3-21.LSI/SYSTEM CONTROL & SERVO SECTION IN DIGITAL SCHEMATIC DIAGRM · · · · · · · · · · · · · · · · · · ·	3-63
3-22.VIDEO 1 SECTION IN DIGITAL SCHEMATIC DIAGRAM······	3-75
3-23.VIDEO 2 SECTION IN DIGITAL SCHEMATIC DIAGRAM······	3-79
3-24.EDITING CONTROLLER SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-85
3-25.IR, FRONT LED SCHEMATIC DIAGRAMS	3-86
3-26.TIMER, MODULAR SCHEMATIC DIAGRAMS · · · · · · · · · · · · · · · · · · ·	3-87
3-27.AUDIO SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-89
3-28.NICAM DECODER SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-92
3-29.INPUT/OUTPUT, REAR JACK SCHEMATIC DIAGRAMS	3-93
3-30.TV DEMODULATOR SCHEMATIC DIAGRAM · · · · · · · · · · · · · · · · · · ·	3-96
3-31.POWER SUPPLY C.B.A	3-97
3-32.REAR JACK C.B.A	3-97
3-33.DV JACK C.B.A	
3-34.MAIN C.B.A	3-99
3-35.FRONT (L) C.B.A	3-101
3-36.FRONT (R) C.B.A	3-101
3-37.HEAD AMP C.B.A	3-102
3-38.ANALOG Y/C C.B.A	3-103
3-39.DIGITAL C.B.A	3-107
3-40.MOTOR DRIVE C.B.A	3-111
3-41.MODULAR C.B.A	3-112
3-42 IR C B A	3-119
3-43.FRONT LED C.B.A	3-112
3-44.5P JACK C.B.A.	3-112
3-45 EDITING CONTROLLER C.B.A	3-113
3-46.TIMER C.B.A	3-113
3-47 MECHANISM DRIVE C.B.A	3-115
3-48.AUDIO C.B.A	3_110
3-49.INPUT / OUTPUT C.B.A. · · · · · · · · · · · · · · · · · ·	3-121
3-50.NICAM DECODER C.B.A	3-120
3-51.TV DEMODULATOR PACK C.B.A. · · · · · · · · · · · · · · · · · ·	3_122
	4-1
4-1.EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST	4-1
1.CASING PARTS SECTION	4-1
2.CHASSIS PARTS SECTION (1) · · · · · · · · · · · · · · · · · · ·	4-3
3.CHASSIS PARTS SECTION (2) · · · · · · · · · · · · · · · · · · ·	4-4
4.SUB CHASSIS PARTS SECTION · · · · · · · · · · · · · · · · · · ·	
	4-6
5.CASSETTE TRAY PARTS SECTION · · · · · · · · · · · · · · · · · · ·	4-6 4-7
5.CASSETTE TRAY PARTS SECTION 6.PACKING PARTS SSECTION 4-2.FL FCTRICAL REPLACEMENT PARTS LIST	4-7 4-8

# Caution for AC Mains Lead (AG-DV2700B)

### **IMPORTANT**

Your attention is drawn to the fact that the recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

### **WARNING**

TO REDUCE THE RISK OF FIRE OF SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

As this equipment gets hot during use, operate it in well ventilated place; do not install this equipment in a confied space such as a book case or similar unit.

### FOR YOUR SAFETY

### **DO NOT REMOVE OUTER COVER.**

To prevent electric shock, do not remove cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

### For your safety please read the following text carefully

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5 amp fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS 1362.

Check for the ASTA mark # or the BSI mark  $\textcircled{\triangledown}$  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

### **IMPORTANT**

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

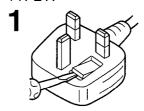
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

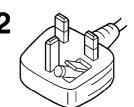
Under no circumstance should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol  $\frac{1}{2}$ .

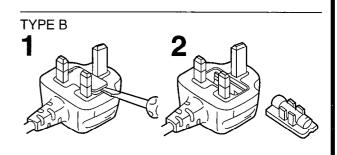
### How to replace the Fuse

- There are two types of the AC Mains Lead assembly:
   A and B as shown below.
- 1 Open the fuse compartment with a screwdriver.
- 2 Replace the fuse and fuse cover.

### TYPE A







This VCR has an On Screen Display (OSD) function which allows for timer recording and various other settings. The main operation buttons used in the function are listed below. These buttons are on the remote controller.

**MENU:** To make the On Screen Display Main menu appear on the TV screen.

To return to the previous screen.

**EXIT:** To exit the menu completely.

**OK:** To confirm the selection, or to store.

▲▼◀▶: To make selections from the On Screen Display.
These buttons can also be used for the playback, stop, rewind and fast forward mode.

# SECTION 1 GENERAL DESCRIPTIONS

### 1. SERVICE INFORMATION

### 1-1. Channel Memory IC Initialization

Memory IC30012 has to be initialized due to the setting value changes when replacing it.

### Note:

- a) When replacing the memory IC30012, the OSD microprocessor IC30013 should be replaced together.
- b) It has to be performed before tuning.

- c) Meaning of "MEMORY IC INITIALIZATION" is to make dependency in different models and to distinguish between different features.
- d) It does not need to perform when replacing the System Control IC6001.

### CHANNEL MEMORY IC INITIALIZATION

PROCEDURES	FIP Display	Monitor Screen
Simultaneously press the FF and EJECT buttons for 3 seconds.	0 00 00	None
Keep to press the FF button and press the Eject button twice.	2 00 00	None
Press the EJECT key for 3 seconds. (Eject operation is performed at this time.)	2 00 00	None
Press the CH UP key twice. (The 3rd degit changes 0→1→2 by pressing the CH up key.)	a 0a oo	None
Press the POWER key.	a 0a.oo	Service Screen (See Fig. S1)
	(Colon starts flashing)	
Press the REC key on the Remote Controller Unit.	a 0a.oo	Service Screen (See Fig. S1)
Set the Model Code and Option Code by pressing ▶ ◀ ▲▼ keys on the Remote Controller Unit. (See Fig. S2)	a 0a:00	Service Screen (See Fig. S1)
To release Service Mode, press POWER key and then press the FF then press the EJECT button more than 6 times until the normal indication on the FIP.	101.00	None

Service		
	Version	
OSD	VCCZ1.35	0
MAIN	V1CJ0.34	0
Pos for time ref.	NONE	
Last error code:	00	
Model Code	104 (68h)	
Option Code	160 (A0h)	
Clock adjust	+ 0	
VPS/PDC default	AUTO (deper	nd)

Fig. S1 Service Screen

Caution:

Since the "Clock adjust" and "VPS/PDC default" are future expansion, do not change the initial setting. If changing the "Clock adjust" accidentally, set the code

"+0" by pressing ▲▼ keys on the Remote Controller Unit.

If changing the "VPS/PDC default" accidentally, set the code mentioned "(default)" by pressing ▲▼ keys on the Remote Controller Unit.

Model	Model Code	Option Code
AG-DV2700E	164	136
AG-DV2700B	168	160

Fig. S2 Model Code & Option Code

### 2. Service Position

### 2-1. Extension Cables

Use the following Extension Cables when checking individual circuit boards.

No.	Part No.	Part Name	C	onnection	Q'ty	Remarks
1	VFK1405	Audio Connection C.B.A.	Main C.B.A.	- Audio C.B.A.	1	
2	VFK1406	Digital Connection C.B.A.	Main C.B.A	- AV Digital C.B.A.	1	
3	VFK1407P	Y/C Connection C.B.A.	Main C.B.A.	- Analog Y/C C.B.A.	1	
4	VFK1408	Motor Connection C.B.A.	Main C.B.A.	- Motor Drive C.B.A.	1	
5	VFK0849	20P Flat Cable	Digital FP3201	- Head Amp FP5002	1	
6	VFK1445	26P Flat Cable	Main P6703	- Mech. P6504	1	
7	VFK1446	32P Flat Cable	Main P6701	- Mech. P6505	1	
8	VFK1436	14P Extension Cable	Motor Power P2502	- Mech. P2705	2	
9	VFK1448	12P Extension Cable	Main P6707	- Power P1102	1	

Fig. 2-1 Extension Cable

### 2-2. Service Position

### a. Service Position for AV Digital, Analog Y/C, Audio or Motor Power C.B.A.

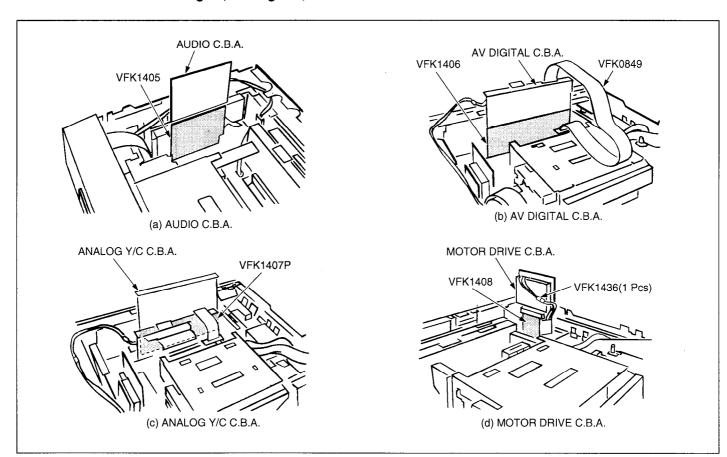


Fig. 2-2 Service Position for AV Digital, Analog Y/C, Audio and Motor Drive C.B.A.

### b. Service Position for Mechanism Drive C.B.A.

When checking the Mechanism Drive C.B.A., remove the Mechanism unit with Mechanism Drive C.B.A. from the frame. Then, connect the extension cables as shown in Fig. 2-3 and turn over the Mechanism unit.

### c. Service Position for Main C.B.A.

When checking the Main C.B.A., take out the Mechanism unit with Mechanism Drive C.B.A. and Main C.B.A. from the frame. Then, connect extension cables as shown in Fig. 2-4 and turn over the Main C.B.A..

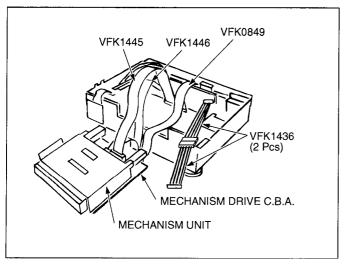


Fig. 2-3 Service Position for Mechanism Drive C.B.A.

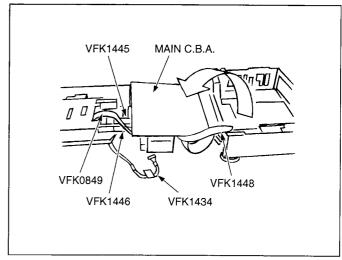


Fig. 2-4 Service Position for Main C.B.A.

### 2-3. Electrical Adjustment

### 1. PREPARATION

To perform electrical adjustments completely, the following measuring equipment and system should be prepared.

### 1-1. Measuring Equipment

Equipment		Specification	
Dual-Trace Oscilloscope	Voltage Range	0.001 to 50V/Div.	
	Frequency Range	DC to 100MHz	
	Probes	10:1, 1:1	
DVM (Digital Volt Meter)	Voltage Range	0.001 to 50V	
Frequency Counter	Frequency Range	0 to 150MHz	

Fig. 2-5

### 1-2. Special Fixtures and Tools

Please refer to the special jigs and tools list at the end of the electrical adjustment procedure section.

### 1-3. PC EVR System

The table in figu	ire 2-6 shows the all electric			ustments need the PC EVR Syst	<del></del>
Menu	Adjustment	Nasality of PC EVR	Menu	Adjustment	Nasality of PC EVR
		System			System
SERVO	1. Reel Offset Adjustment	No	VIDEO	4. Video Y-in level adjustment	Necessary
ADJUSTMENT MENU	2. Tension Arm Offset Adjustment	No	ADJUSTMENT MENU	5. Video-in C level adjustment	Necessary
	3. Tension Arm neutral Adjustment	No		6. Play Y level adjustment	Necessary
	4. Tension Arm Play Level Adjustment	No		7. Play C level adjustment	Necessary
	5. Tension Arm Rev Position Confirmation	No		8. Centering adjustment	Necessary
	6. Tension Arm Spring Adjustment	No		9. Write product ID	Necessary
	7. Reverse Tension Confirmation	No	SEE MANUAL	10. Phase of Y sepa. V blanking pulse adj.	No
	8. PG Shifter Adjustment (Automatic)	Necessary		11. Phase of Y sepa. H blanking pulse adj.	No
	9. Sensitivity adjustment of tape sensors	No		12. PAL encoder free run adjustment	No
SEE MANUAL	1. E-E Y level adjustment	No		13. Edit OSD colour burst clock frequency adj.	No
VIDEO ADJUSTMENT	2. Video VCO adjustment	Necessary		14. Edit OSD dot clock adjustment	No
MENU	3. RF / BITERBI adjustment	Necessary	AUDIO ADJUSTMENT MENU	Level meter adjustment	No

Fig. 2-6

Figure 2-7 shows the overall system connection of the PC EVR System.

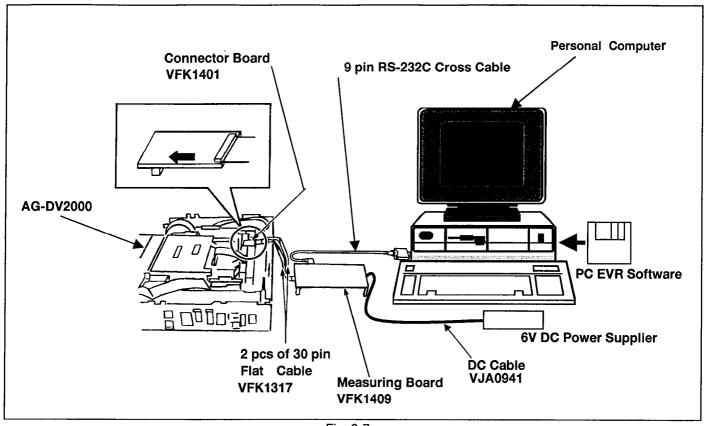


Fig. 2-7

### 2. PC EVR System Hook up Procedures

1. Connect the 2 pcs of 30 pin flat cables between the Measuring Board and EVR Connection Board as shown below.

Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the EVR Connection Board is as shown in figure 2-8.

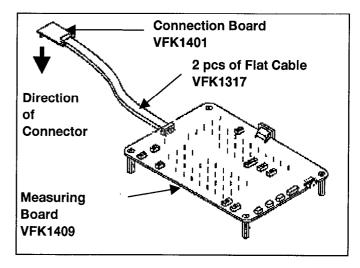


Fig. 2-8

 Set the Connector Board with the 30 pin Cables to the unit as shown in Figure below.
 Make sure that the direction of the Connection Board is correctly fit.

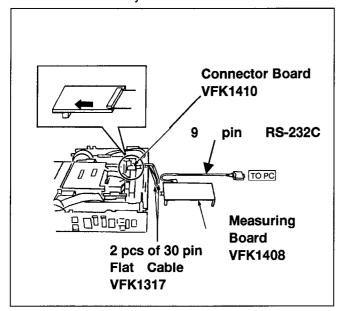


Fig. 2-9

- 3. Connect a 9pin RS-232C cable between the Measuring Board and RS-232C connector on the Personal Computer as shown in figure 2-7.
- Connect the 4pin 6V/DC Power cable between AC adaptor or DC power supply unit..

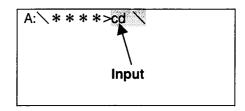
### 3. PC EVR SOFTWARE

### 3-1. BOOT UP THE SOFTWARE

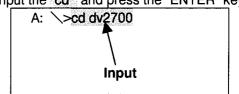
- 1. Power ON the Personal Computer. Windows 95 is set up (AUTO).
- 2. Restart the PC in Dos mode.
- 3. Insert the EVR software floppy disk into the FD drive of the PC.
- 4. Boot up the EVR program as the following steps.
  - 1) Input "a:" and then press the "ENTER" key.

    C:\WINDOWS>a:

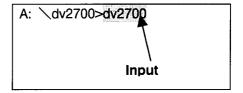
2) Input "cd \" and then press the "ENTER" key.



3) Input the "cd" and press the "ENTER" key.



4) input the "dv2700" and then press the "ENTER" key.



- 5) Wait for a few seconds so that the EVR adjustment program is started.
- 6) For the adjustments, follow the program display.

### 3-2. How to Use the Main Menu

Select a Sub Menu to check, adjust the unit and etc. by pressing † ↓ (UP/DOWN) Key in Main Menu. Then, press "ENTER" Key. The Sub Menu will be displayed.

**Note:** Menu (pages) 3 through 5 are needed for adjustment.

With using keys, also the menu can be changed.

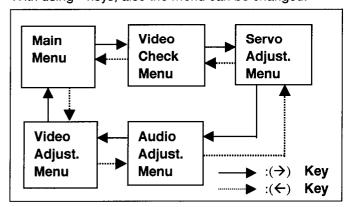


Fig. 2-10

### 3-3. Introduction of the Sub Menu

# MAIN MENU 1. VIDEO CHECK. 2. SERVO ADJUSTMENT. 3. VIDEO ADJUSTMENT. 4. AUDIO ADJUSTMENT. 5. INFORMATION. 6. DISPLAY TYTLE SCREEN. 7. RESTART [PC EVR] SYSTEM. 8. END.

Fig. 2-11

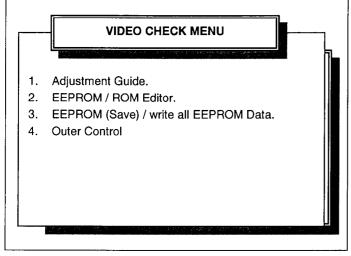


Fig. 2-12



Fig. 2-13

# 1. E-E Y level adjustment 2. Video VCO adjustment t 3. RF / VITERBI adjustment 4. Video-in Y level adjustment 5. Video-in C level adjustment 6. Play Y level adjustment 7. Play C level adjustment 8. Centering adjustment 9. Write product ID

Fig. 2-14

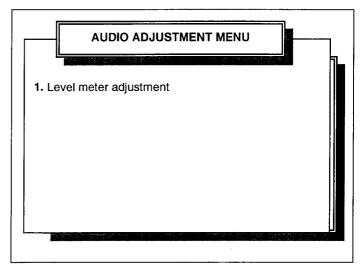


Fig. 2-15

### 3-4. Restoration of Connecting Error

This program checks connecting condition with the deck all the time.

When the deck power is off or reset, or cable is disconnected during servicing, restart the program by pressing "CTRL" key and "BREAK" key together.

### 4. EEPROM

Some of adjustment data have been stored in the EEPROM in the Digital C.B.A.

Be sure to save the EEPROM data into the personal computer before performing service and adjustment, in order to avoid any accidental data loss.

### 4-1. How to Save the EEPROM Data

- 1) Select "1. VIDEO CHECK" in the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- Select "2. Save all EEPROM data" in Read (Save) / Write All EEPROM data menu, and then press the "Enter" key.
- 4) Input the File name, and then press "Enter" key. The data of EEPROM will be stored in the personal computer.

### 4-2. How to REWRITE Saved data

When it becomes impossible to adjust during service and adjustment, rewrite the saved data which stored in the personal computer and readjust.

- 1) Select "1. VIDEO CHECK" in the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- Select "3. Writing from stored data file" in Read (Save) / Write All EEPROM data menu, and then press the "Enter" key.
- 4) Input the saved file name, and then press the "Enter" key.
- The stored data is written in the EEPROM.

### 4-3. Digital C.B.A. Replacement

In case that the Digital C.B.A. is replaced, be sure to write the data to EEPROM on the Digital C.B.A. as follows.

- 1. Select "1. VIDEO CHECK" In the Main menu, and then press the "Enter" key.
- 2. Select "3. Read (Save) / Write All EEPROM data" in
- the Video check menu, and then press the "Enter" key.
- 4. Select "3. Writing from stored data files." In Read (Save) / Write All EEPROM data menu, and then press the "Enter" key. Input the saved file name, and then press the "Enter" key.

ΛP

Select "4. Writing of fixed / average values," and then press the "Enter" key. And press the "Enter" key once again.

Then, input ID Number as follows.

### 4-4. How to input ID Number

When writing ID Number from the saved data which is stored in 4-1.

- 1. Select "2. Check [Video]." In the Main menu, and then press the "Enter" key.
- Select "3. Read (Save) / Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- 4. Select "5. Writing ID from the stored file." In Read [Save]/Write All EEPROM data menu, and then press the "Enter" key. Input the saved file name, and then press the "Enter" key.

The ID Number will be written automatically.

When the original ID information can not be read because of the destruction of EEPROM etc.:

- 1. Select "1. VIDEO ADJUSTMENT" in Main menu, and then press "Enter" key.
- 2. Select "9. Write products ID" in the Video adjustment menu, and then press the "Enter" key.
- ID Number will be written automatically.
   (If the deck has no ID, it may cause problem on the IEEE1394 communication and etc.

### 3. Service Information Display

In the Service Information Display, there are four digits divided into 3 functions, Service Mode, Service Data Number and Service Information Number.

This information aids trouble shooting by indicating the source of the malfunction. The service mode number and service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technical to provide a more accurate repair cost estimate and reduce repair time.

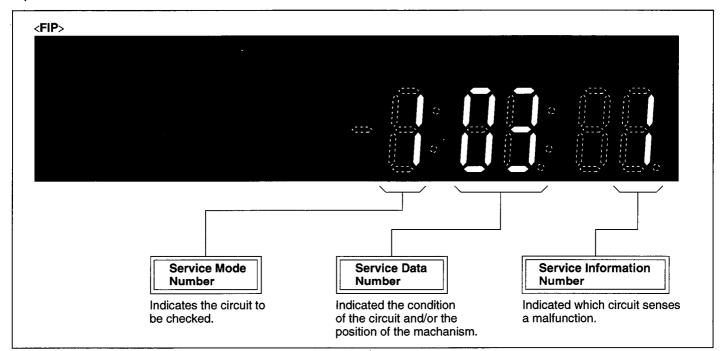


Fig. 2-16 Service Information Display

### 3-1. Set Service Mode

Press the FF and Eject buttons simultaneously.

The display will change "0.\*\*:\*\*

Pressing the FF and Eject button simultaneously will change the Service Mode Number as follows. (Refer to Fig. 2)

Mode 1 : Check tape protection circuit

Mode 2: Check tape transport mechanism

Mode 3: Check mode switching operation

Mode 4: Check tray in /out operation

Mode 5: Check control buttons

Mode 6: Check mode switching and solenoid operations

Mode 7: Check loading / unloading operation

The first digit indicates which of the above 7 service modes that the unit is currently in.

The second and third digits are service data that indicate the condition of the circuit or mechanism being checked.

The forth digit is the service information display. It is to be used by the consumer to help determine the source of a malfunction. The service information display operates independently of the service modes and stores the fault indication in memory for as long as AC power is not supplied.

Service Mode Number	Service Data Numbers	Indication					Remarks
	00	Light detected at both sensors.					
1	01	Tape Beginning. Light to Supply Photo	Tape Beginning. Light to Supply Photo Sensor is blocked.				
Tape Beginning/ End detect	02	Tape End. Light to Take-up Phot	o Sensor i	s blocked.			
	03	No light detected at either sensor.					
	03	Cassette Down					
2	05	H/L Position					
Mechanism	07	Middle Position					
position detect	09	Stop Position					
	33	Tray Open Position					
	0*, 2*, 3*	Tray In → Stop					
	6*	Stop → Play					
3	8*	Play → Cue					
Process	9*	Play → Rev				-	
mode detect	n*	Stop → FF/Rew					
	2*	Loading					,
	L*	Unloading					
4	1*	Tray In condition					
Tray process mode detect	*2→ *3→ *4→ 00	Tray Out condition	The second secon				
	00	Stop					
	02	Rew					
_	03	FF	••••				
5 Mode detect	04	Rev					
INIOGE GELECT	05	Cue					-
	08	Play				-	
	0U	Rec			•		
		Solenoid condition	Pinch	S Reel	T Reel		
6	1U	Stop	On	Off	Off		
Mechanism	16	FF/REW	Off	Off	Off		
position detect	2U	Tray In/Out	Off	On	On		
	29	Loading	Off	Off	On		
7 Checks loading/unloading operation		The Loading Motor rotates for loading operation when the "Play" button is pressed.  The Loading Motor rotates for unloading operation when the "Stop" button is pressed.			e not required.		

Fig. 3-2 Service Mode Number

### 3-2. Self-Test Mode

This VTR has a self-diagnosis and display function. If the VTR detects trouble during installation or during use, one of the following Fault Indication Codes will automatically appear in the VTR display. Fault Indication codes are displayed in the form of a single English letter plus two numbers such as "H01".

### Note:

- 1. The indication "H" or "F" is displayed on the FIP, and the power is automatically turned off.
- When the power is turned on again, the Fault Indication Code will disappear and the unit will return to normal display mode (either clock or counter).
- 2. This Fault Indication Code will be stored in the Timer microprocessor even with the AC plug disconnected.

The two-digit number portion of the stored Fault Indication Code can be redisplayed in the FIP's "second" display position (the last 2 digits on the light) by placing the unit is Service Mode Number 2 when turning on Service Information Display as for example "01" or "02" etc.

If a second error occurs, only the most recent error will be displayed and stored.

3. To erase the stored Fault Indication Code data, press "FF" and "Eject" button simultaneously more than 5 seconds.

Di	splay	Condition	Cause	Remedy/Check
Н	H01	Cylinder Lock After Cylinder lock is detected, the Cylinder does not start rotating again even after tape unloading.		Check the cylinder motor drive.
	H02	Capstan Lock	Cassette tape is not wound up during tape unloading.	Check the capstan motor drive.
F	F03	Loading Lock	Mechanism locks during tape loading.	Check the loading motor drive.
	F04	Unloading Lock	Mechanism locks during tape unloading.	2. Check the mecha.  phase alignment.
	F05	Reel FG Detection	Detects abnormal condition during tape loading/unloading.	Check the tension sensor and supply and take-up reel drive.
	F06	Tray In Lock	Tray Motor locks during Tray In.	Check the tray motor drive.
	F07	Tray Out Lock	Tray Motor locks during Tray Out.	2. Check the tray phase alignment.
	F08	Tension Sensor Detection	Detects abnormal condition during tape loading.	Check the tension sensor and supply and take-up reel drive.

Fig. 3-3 Self-Test Indication Display

### 4. Removal of the Cassette Tape

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually.

There are 2 methods to remove the cassette as follows.

### 4-1. Battery Operation

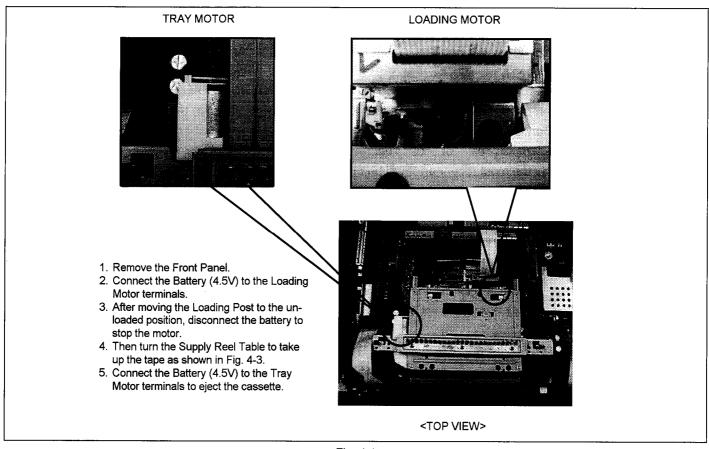


Fig. 4-1

### 4-2. Hand Operation

### 1. Unload the loading post by turning the loading motor

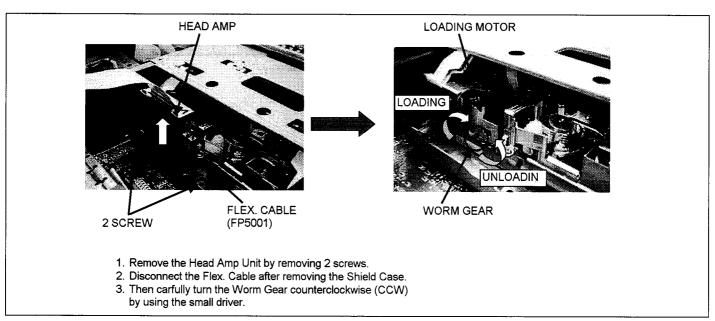


Fig. 4-2

### 2. Take up the tape by turning the supply reel table

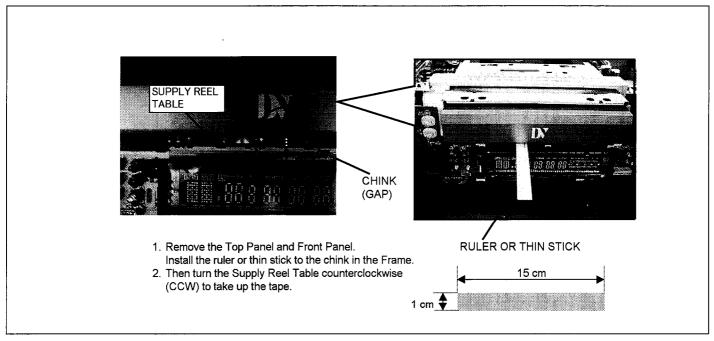


Fig. 4-3

### 3. Eject the tray by turning the tray motor

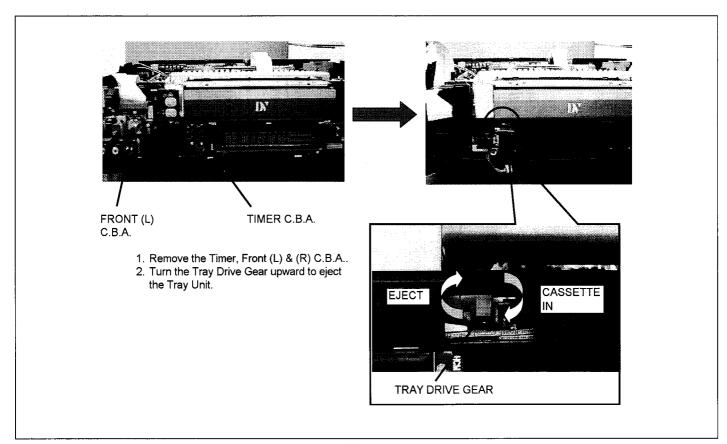
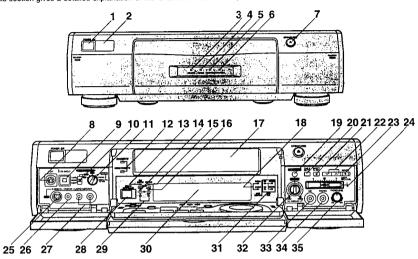


Fig. 4-4

## **Control and Connection Sockets**

This section gives a detailed explanation of the function of each button, switch and connection socket.



### **FRONT**

### 1 POWER 也/I

Press to switch the VCR from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

### 2 Infra-red Remote Control Receiver Window

### 3 STANDBY Indicator

This indicator is lit when main lead is connected and the power is off.

### 4 POWER Indicator

This indicator is lit when the power is on.

### 5 TIMER REC Indicator

This indicator is lit when the timer recording function is on.

### 6 CASSETTE IN Indicator

This indicator is lit when a cassette is inserted.

### 7 OPEN/CLOSE

Press to open the front panel or open/close the cassette trav.

### 8 EDIT

By connecting a movie camera or VCR with an EDIT socket to this socket via an Edit cable, various kinds of editing functions can be performed more quickly and efficiently between two VCRs or between a VCR and a movie camera.

### 9 DV IN/OUT ( i)

To connect the DV cable to digital video equipment with IEEE 1394-1995 compatible DV terminal.
"i.LINK" is the name of the connector in accordance with

the International Standard IEEE1394-1995.

"in is the logo marked on products conforming with the

"i.LINK" specifications. For further details on the DV terminal, refer to the Glossary of Terms on page 92.

### 10 EDIT MODE

PLAYER:

When this VCR is used as the playback VCR during editing operations.

RECORDER: When this VCR is used as the recording

VCR during editing operations.

Normally set at this position.

PASSIVE: When operating this VCR using another

VCR or an editing controller.

 The picture quality best suited for editing is selected.

### 11 EDIT CONTROL

To select a connected component when another component is to be connected for editing, etc.

### 12 DV CASSETTE/MINI DV CASSETTE Indicators

This indicator corresponds to the size of the cassette inserted is lit.

### 13 JOG/SHUTTLE Indicator

While this display is lit, the unit is set to the Jog/Shuttle mode.

- Check that the display is lit before proceeding with a jog or shuttle operation.
- The display is automatically turned off if no operation is performed.

### 14 VIDEO INSERT Indicator

This indicator is lit when the Video Insert editing is performed.

### 15 AUDIO DUB Indicator

This indicator is lit when the Audio Dubbing or Audio Mixing is performed.

### 16 AUDIO INSERT Indicator

This indicator is lit when the Audio Insert editing is performed.

### 17 Cassette Trav

### 18 Indicators for AUDIO MONITOR

The audio track selected by STEREO SELECT lights. (This applies to a tape recorded in the 12bit audio mode only.)

### 19 MIXING EDIT

For Mixing Editing.

### 20 TIMER REC ITI

To turn the timer recording function on and off. [9] is lit when the function is on (standby mode). Once the operating timer recording function is set, normal VCR operation is not possible unless this button is set to off.

### 21 DIRECT TV REC

For the Direct TV REC function.

### 22 🗸

To select the required programme position (TV station) of the VCR

### 23 REC/OTR

To start recording.

For One-Touch Recording (OTR).

### 24 AUDIO REC LEVEL

To adjust the audio recording level to peak at +4 dB on the recording level indicator.

 When INPUT SELECT is set to DV IN the audio recording level cannot be adjusted.

### 25 S-VIDEO IN (AV3)

To connect the S-Video cable to a movie camera or to another VCR that has an S-Video output socket.

 If an S-Video cable is connected, other video input (AV3) is automatically switched off.

### 26 VIDEO IN (AV3)

To connect the video cable to a movie camera or to another VCR.

### 27 AUDIO IN (AV3)

To connect the audio cable to a movie camera or to another VCR

### 28 EDITING CONTROLLER Socket

When using the editing controller separate from the main unit, remove the modular cap and then connect the editing controller cable.

### 29 DV IN/OUT Indicators

DV IN: This indicator is lit when INPUT SELECT is

set to DV IN.

DV OUT: This indicator is lit when a playback operation is performed using this VCR or when INPUT SELECT is set to other than DV IN.

### 30 Display

### 31 Indicators for AUDIO DATA

Displays the audio data that is to be recorded, or the audio data on a tape that has already been recorded. The audio recording mode can be set in the SET UP

12bit-STEREO1: To play back a tape that is recorded in

12bit audio mode.

12bit-STEREO2: To play back a STEREO2 audio tape

recorded in the 12bit audio mode.
To play back a tape that is recorded in

16bit: To play back a tap 16bit audio mode.

### 32 AUDIO MIX Level

During the Audio Mixing function:

To adjust the volume of the original audio

During playback of a tape recorded in the 12bit audio mode:

To adjust the mix balance between the STEREO1 and STEREO2 audio.

### 33 MIC

To connect to a microphone for recording. Once connected, this socket has priority.

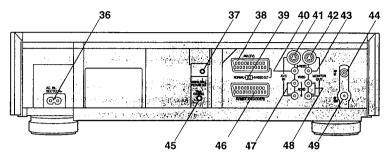
### 34 PHONES

To connect stereo headphones.

### 35 PHONES LEVEL

For adjusting the volume level of connected stereo headphones.

5



### REAR

### 36 AC IN~

To connect to the main power supply.

### 37 DIGITAL STILL PICTURE OUT

To connect the VCR with a computer in order to transmit the image data to the computer.

### 38 AV1 (TV)

This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.

The scart terminal is also called

Peritel Euro Connector Euro AV



NORMAL (AV1/AV2) S-VIDEO (AV1) 01 AUDIO OUTPUT 01 AUDIO OUTPUT CH2 (R) CH2 (R) 02 AUDIO INPUT 02 AUDIO INPUT CH2 (R) CH2 (R) 03 AUDIO OUTPUT 03 AUDIÒ OUTPUT CH1 (L) CH1 (L) 04 AUDIO GND 04 AUDIO GND 05 BLUE GND 05 No connection 06 AUDIO INPUT CH1 (L) 06 AUDIO INPUT CH1 (L) 07 BLUE 07 No connection 08 SWITCHING VOLTAGE 08 SWITCHING VOLTAGE 09 GREEN GND 09 No connection 10 CONTROL SIGNAL 10 CONTROL SIGNAL (AV1 only) 11 GREEN 11 No connection 12 No connection 12 No connection 13 RED GND 13 C OUT GND 14 BLANKING GND 14 No connection 15 RED 15 C OUT 16 BLANKING 16 No connection 17 VIDEO OUTPUT GND 17 YOUT GND 18 VIDEO INPUT GND 18 VIDEO INPUT GND

Caution: RGB reservation for only E/E operation when connecting the Pay TV decoder.

19 Y OUT

21 GND

20. VIDEO INPUT

19 VIDEO OUTPUT

20 VIDEO INPUT

21 GND

### 39 NORMAL/S-VIDEO OUT

NORMAL: Normally set to this position. S-VIDEO OUT (AV1):

Set to this position when connecting the VCR to a TV set equipped with 21-pin Euro-AV Connector with pins for separate Y/C signal input.

### 40 VIDEO IN (AV3)

To connect the video cable to a movie camera or to another VCR.

 If units are connected to the VIDEO input sockets on both the front and rear of this VCR, the rear video inputs are automatically switched off.

### 41 S-VIDEO IN (AV3)

To connect the S-Video cable to a movie camera or to another VCR that has an S-Video output socket.

- If an S-Video cable is connected, other video input (AV3) is automatically switched off.
- If units are connected to the VIDEO input sockets on both the front and rear of this VCR, the rear video inputs are automatically switched off.

### 42 S-VIDEO OUT

To connect the S-Video cable to a TV or another VCR that has an S-Video input socket.

### 43 VIDEO OUT

To connect the video cable to a TV or to another VCR.

### 44 RF IN

To connect to the external aerial.

### 45 8mm CONTROL

To connect a movie camera or another VCR equipped with LANC socket for editing.

### 46 AV2 (EXT/DECODER)

To connect to a decoder or another VCR.

### 47 AUDIO IN (AV3)

To connect the audio cable to a movie camera or to another VCR.

### 48 AUDIO OUT

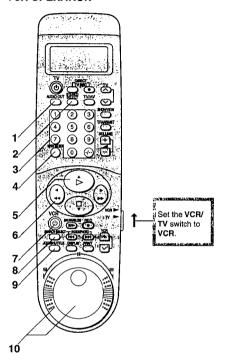
To connect the audio cable to a stereo audio system.

### 49 RF OUT

To connect to the aerial terminal on a TV set.

# Infra-red Remote Controller

### VCR OPERATION



### 1 AUDIO OUT

To select the desired sound mode.

At every push of this button, the audio output mode changes as follows.

The Left(L) and Right(R) Indicators shown which sound mode is selected in the following way.

Stereo: Both the L and R Indicators appear

Left: The L Indicator appears.
Right: The R Indicator appears.

### 2 STEREO SELECT

To select the audio track (STEREO1 audio and/cr STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:

STEREO1 ---- STEREO2 ---- STEREO1 ----- STEREO2 (MIX)

- The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode.
- When INPUT SELECT is set to DV IN and a 12bit audio mode input signal is being received, the audio track can be selected by STEREO SELECT at any time

### 3 Numeric Buttons

Be sure that the VCR/TV switch is set to VCR.

- To select the programme positions (1-99) of the VCR.
  - 9: (9)
  - 19:  $(1) \rightarrow (1) \rightarrow (9)$
- To enter a ShowView number

### 4 INPUT SELECT

To select the A1, A2, A3 or DV IN external recording source.

### 5 ▷ (PLAY)

To start playback, ">" is lit during playback.

### 6 ◀◀ (REWIND)

In the stop mode: To rewind the tape.

In the playback mode: To search backward for a scene. In the rewind mode: To view the video.

"" is lit during rewind.

### 7 VCR 也

Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

### 8 SEARCH SELECT

To search for a recorded programme using the index/ photoshot index search function.

### 9 JOG/SHUTTLE

Press this to switch to the Jog/Shuttle mode and make JOG/SHUTTLE ON appear on the remote controller display. Press again to make JOG/SHUTTLE ON disappear.

In the stop mode: Still picture (Jog/Shuttle mode). During playback: Still picture (Jog/Shuttle mode).

### 10 Jog Dial/Shuttle Ring

### Jog Dial (inner dial):

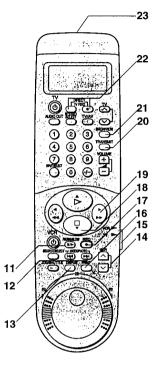
Operate after pressing **JOG/SHUTTLE** to switch to the Jog/shuttle mode.

To locate any desired field with utmost precision.

### Shuttle Ring (outer ring):

Operate after pressing **JOG/SHUTTLE** to switch to the Jog/shuttle mode.

To adjust playback speed backward or forward.



### 11 PAUSE/SLOW (III/I>)

During playback:

When pressed once: Still picture, "00" is lit.

. When pressed for 2 seconds or more:

Slow playback, "[] ▷" is lit.

Durina recordina:

To pause recording.

### 12 INDEX/PHOTO

For the index/photoshot index search function.

### 13 DISPLAY

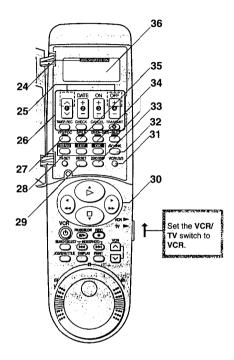
To change the VCR display indication as follows:

→Clock ---> Time ---> Remaining --> Counter--Tape Time Code

. The time code frame values are not displayed on the main unit's VCR display.

### 14 V A (VCR)

To select the required programme position (TV station) of the VCR.



### 15 VCR/TV switch

VCR: To select the VCR operation mode. TV: To select the TV operation mode.

### 16 PRINT To print out images when the VCR is connected to a

video printer with an Edit socket.

### 17 REC

To start recording.

### 18 (STOP)

To stop playback or recording.

### 19 ▶► (FAST FORWARD)

In the stop mode: To fast forward the tape. In the playback mode:

To search forward for a scene. In the fast forward mode: To view the video. "DD" is lit during fast forward.

### 20 TRANSMIT

To transmit the data that has been set on the remote controller to the VCR.

### 21 SHOWVIEW

For the ShowView programming.

### 22 DIRECTTY REC

For the Direct TV REC function. Press both buttons at the same time.

### 23 Infra-red Transmitter

### 24 JOG/SHUTTLE ON Display

While this display is lit, the VCR is set to the Jog/Shuttle

- · Check that the display is lit before proceeding with a jog or shuttle operation.
- The display is automatically turned off if no operation is performed.

### 25 A . OFF+

For the Child Lock Function. See the description on page 11.

### 26 Timer Recording Operation Buttons

✓ ∧. DATE, ON, OFF:

TIMER REC:

To programme a timer recording.

To turn the timer recording function on and off. U is lit when the function is on

(standby mode).

Once the operating timer recording function is set, normal VCR operation is not possible unless this button is set

to off.

CHECK: To programme a timer recording.

To check and modify timer

programmes.

CANCEL: To cancel timer programmes.

TRANSMIT: To transmit the data that has been set

on the remote controller to the VCB.

### 27 VPS/PDC

To set the VPS/PDC recording option or cancel the

### 28 On Screen Display Menu Operation Buttons

The buttons with the green characters are used for the on screen display menu operation.

MENU: To make the On Screen Display Main

menu appear on the TV screen.

EXIT: To exit the menu completely.

OK: To confirm the selection, or to store.

### 29 RESET

To reset the tape counter (elapsed time) to "0:00.00".

- The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.
- It is not possible to reset the Time code to "0h00m00s00f" using RESET.

### 30 ▲ ▼ ◀ ▶

To make selections from the On Screen Display. (When the On Screen Display is displayed.) These buttons can also be used for the playback, stop. rewind and fast forward mode. (When the On Screen Display is not displayed.)

### 31 VCB1/2/3

To select the remote control mode. The selected mode appears on the remote controller display.

Set this position on both the VCR and VCR1: remote controller for normal use with one

VCR

VCB2: Set this position when using two

Panasonic VCRs.

VCR3: Set this position when using three

Panasonic VCRs.

 When the VCR's remote control mode has been switched, select the same remote control mode on the editing controller as well.

### 32 AV LINK

To select the VCR mode or TV mode for AV LINK.

### 33 ZERO STOP

For the zero stop function.

### 34 DATE-OFF/ON, DATE-SELECT

When pictures are recorded using this VCR or a Panasonic Digital Video Camera, the date and time of the recording are automatically recorded onto the tape's sub code track

This button is used to select the information to be displayed on the On Screen Display.

### DATE-OFF/ON:

To make the Date/Time indication appear on the TV

### DATE-SELECT:

To change the indication to be displayed on the TV screen as follows:

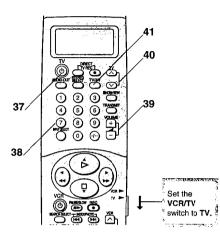
→Date —→ Date —→ Time -Time

### 35 SP/LP

To select the tape speed desired for recording.

### 36 Display

### TV OPERATION



### 37 TV (b)

Press to switch the TV from on to standby mode or vice versa. In standby mode, the TV is still connected to the mains.

 With some TV models, it may only be possible to switch the TV to the standby mode using this button. In this case, use the numeric buttons, TV/AV or < \( \sigma \) to switch the TV on.

### 38 Numeric Buttons

To select programme positions (1-99) of the TV.

Be sure that the VCR/TV switch is set to TV.

### 39 VOLUME

To adjust the volume of the TV.

### 40 ∨ ∧ (TV)

To select the required programme position (TV station) of the TV.

### 41 TV/AV

To switch between TV channels and external input

### 42 TV-SET

To set the remote controller for operation of the TV.

### 43 OFF

Sets the remote controller for operation of the TV.

# 43

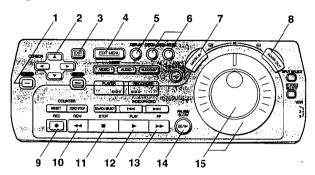
### Child Lock function

Holding down A and OFF+ until "IN" and "hold" appear in the VCR display will deactivate all buttons. Any external commands will not be processed by the VCR

To cancel this function, repeat the same procedure until "Dod" and "hold" disappear.

- When the power is disconnected, the Child Lock function is automatically cancelled after the roughly 60 minutes of backup time.

# **Editing Controller**



### 1 SET UP

To make the SET UP screen appear on the TV screen. When the SET UP screen is displayed, use this button to return to the previous screen.

### 2 **▲ ▼ ◀ ▶** (CURSOR)

To make selections from the SET UP or EDIT MENU screen. (When the SET UP or EDIT MENU screen is displayed.)

### 3 EXIT

To exit the SET UP or EDIT MENU screen.

### 4 EDIT MENU

To make the EDIT MENU screen appear on the TV screen, and to return to the previous screen. This button is also used to stop editing functions using the EDIT MENU screen.

### 5 DISPLAY

To change the VCR display indication as follows:

$\rightarrow$ Clock $\longrightarrow$ Time $\longrightarrow$	Remaining> Co
Code	Tape Time

 The time code frame values are not displayed on the main unit's VCR display.

### 6 DATE-OFF/ON, DATE-SELECT

When pictures are recorded using this VCR or a Panasonic Digital Video Camera, the date and time of the recording are automatically recorded onto the tape's sub code track.

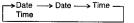
This button is used to select the information to be displayed on the On Screen Display.

### DATE-OFF/ON:

To make the Date/Time indication appear on the TV screen

### DATE-SELECT:

To change the indication to be displayed on the TV screen as follows:



### 7 MARKIN

To set edit start points for Programme Editing.

### 8 MARK OUT

To set edit end points for Programme Editing.

### 9 REC

To start recording.

### 10 **◄◄** (REW)

In the stop mode: To rewind the tape.

In the playback mode: To search backward for a scene. In the rewind mode: To view the video.

"⊲⊲" is lit during rewind.

### 11 ■ (STOP)

To stop playback or recording.

### 12 ► (PLAY)

To start playback, ">" is lit during playback.

### 13 ▶**►** (FF)

In the stop mode:
In the playback mode:
In the fast forward mode:
In the fast forward mode:
To search forward for a scene.
To view the video.
">>>" is lit during fast forward.

### 14 PAUSE/SLOW (##/II-)

During playback:

• When pressed once: Still picture. "00" is lit.

When pressed for 2 seconds or more:

Slow playback. "□▷" is lit.

During recording:

To pause recording.

### 15 Jog Dial/Shuttle Ring

### Jog Dial (inner dial):

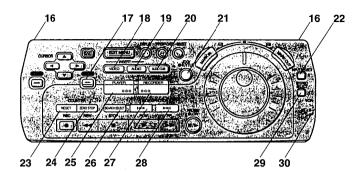
Operate after pressing JOG/SHUTTLE to switch to the Jog/shuttle mode.

To locate any desired field with utmost precision.

### Shuttle Ring (outer ring):

Operate after pressing **JOG/SHUTTLE** to switch to the Jog/shuttle mode.

To adjust playback speed backward or forward.



### 16 Infra-red Transmitter

### 17 OK

To start Manual editing and to store the selection on the SET UP or EDIT MENU screen.

### 18 VIDEO INSERT

For the Video Insert function and the AV Insert function.

### 19 AUDIO INSERT

For the Audio Insert function and the AV Insert function.

### 20 AUDIO DUB

For the Audio Dubbing function or the Audio Mixing function

### 21 JOG/SHUTTLE

To switch to the Jog/Shuttle mode. When the button is pressed, it lights and the VCR enters the Jog/Shuttle

in the stop mode: Still picture (Jog/Shuttle mode). During playback: Still picture (Jog/Shuttle mode).

### 22 INPUT SELECT

To select the A1, A2, A3 or DV IN external recording source.

### 23 RESET

To reset the tape counter (elapsed time) to "0:00.00".

- The tape counter is automatically reset to "0:00.00". when a video cassette is inserted.
- . It is not possible to reset the Time code to "0h00m00s00f" using RESET.

### 24 ZERO STOP

For the zero stop function.

### 25 PLAYER

To operate the playback unit.

### 26 SEARCH SELECT

To search for a recorded programme using the index/ photoshot index search.

### 27 RECORDER

To operate the recording VCR.

### 28 INDEX/PHOTO

For the index/photoshot index search function.

### 29 STEREO SELECT

To select the audio track (STEREO1 audio and/or STEREO2 audio) on a tape which was recorded in the 12bit audio mode. During playback, each time the button is pressed, the sound changes as follows:

→ STEREO1 → STEREO2 → STEREO1 STEREO2

- . The audio track cannot be selected during the playback of a tape recorded in the 16bit audio mode
- When INPUT SELECT is set to DV IN, the audio track can be selected by STEREO SELECT at any time: it does not have to be during playback.

### 30 VCR1/2/3

To select the remote control mode. The selected mode appears on the remote controller display.

> Set this position on both the VCR and remote controller for normal use with one

VCR2: Set this position when using two

Panasonic VCRs.

VCR3: Set this position when using three

Panasonic VCRs.

While in the editing mode the VCR's Time code or tape counter display cannot be changed.

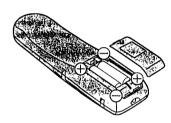
## Remote Controller Editing Controller Setup

### Installing the Batteries

1 To remove the cover, slide it in the direction of the arrow while pressing down.



2 Load the batteries with their polarity (⊕ and ⊖) aligned



3 Slide the cover back on.

### Power Source for the Remote Controller

The remote controller is powered by 2 AA, UM3 or R6 size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

### **Precautions for Battery Replacement**

- Load the new batteries with their polarity (⊕ and ⊝) aligned correctly.
- . Do not apply heat to the batteries, or an internal shortcircuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool, dry place.
- · Remove spent batteries immediately and dispose of
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.
- Do not use rechargeable batteries.

# Set Up

### Installing the Batteries

To remove the cover, slide it in the direction of the arrow while pressing down.



2 Load the batteries with their polarity (⊕ and ⊖) aligned correctly.



3 Slide the cover back on.

### Power Source for the Editing Controller

The editing controller is powered by 2 AA, UM3 or R6 size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

### **Precautions for Battery Replacement**

- Load the new batteries with their polarity (⊕ and ⊝) aligned correctly.
- . Do not apply heat to the batteries, or an internal shortcircuit may occur.
- If you do not intend to use the editing controller for a long period of time, remove the batteries and store them in a cool, dry place.
- · Remove spent batteries immediately and dispose of
- . Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.
- Do not use rechargeable batteries.

The Editing controller can be operated in any of the following 3 ways:

- It can be operated while remaining attached to the main unit.
- Its batteries can be loaded, and it can be separated from the main unit and operated as the remote controller.
- It can be separated from the main unit, connected using the accessory controller cable and operated as the remote controller.

### How to separate the editing controller

While pressing the buttons at the left and right of the main unit's front panel, remove the editing controller with both hands.



### How to attach the editing controller

Push down on the editing controller until the areas around the left and right buttons on the unit's front panel click into position.



### When connecting the editing controller to the video unit using the controller cable

1 Remove the cover over the controller socket on the rear panel of the editing controller, and insert the plug at one end of the editing controller cable into this socket until it clicks into position.



2 Remove the modular cap over the unit's controller socket, and insert the plug at the other end of the editing controller cable into this socket until it clicks into position.



### When using the editing controller as a remote controller

As a remote controller, the editing controller can be operated at a distance up to about 3 m in front and up to an angle of up to about 30 degrees to the left or right of centre. (This range changes in accordance with the ambient brightness.)

### Note:

When the VCR's remote control mode has been switched, switch the remote control mode on the editing controller as well.

# 21pin-Phono Transformer Adaptors





1 21pin-Phono Transformer Adaptor (Output) Inserting this adaptor into AV1 allows it to be used as the Phono Audio/Video output socket.

VIDEO: To connect the video cable to a TV or another VCB.

AUDIO(L/MONO, R): To connect the audio cable to a monitor or another VCR.

### 2 21pin-Phono Transformer Adaptor (Input)

Inserting this adaptor into AV1 or AV2 allows it to be used as the Phono Audio/Video input socket.

VIDEO: To connect the video cable to a TV or another VCR.

To connect the audio cable to a monitor or another VCR

# Setting the Remote Controller to Operate Your TV

This setting procedure allows you to operate the TVs of some manufacturers using the supplied remote control transmitter.

### Preparation

Turn on the TV.

### Operations

Keep TV-SET pressed for more than 2 seconds.

Display Symbols

TV-SE



2 Press OFF several times.





 When the number matches the manufacturer of your TV, the TV's power is turned off.
 Read through the information on the following page as well.

3 Press TV-SET.

TV-SE



•The remote controller display changes as shown.

### How to change the number

Each time the "+" side of OFF is pressed, the number is counted up by one as follows:

When the "-" side of OFF is pressed, the number is counted down by one in the reverse order to that indicated above.

### Notes:

- If you are using a Panasonic TV, this setting has already been made, and so you do not need to perform the above setting procedure. However, this remote controller may not work with some Panasonic TVs.
- Some TV models cannot be operated using this remote controller.
- This VCR remote controller is not designed to select all AV positions of some TVs.
   Use your TV remote cotroller to select some AV positions.

15

AUDIO(L, R):

Set the VCR/TV

switch to TV.

# 1 - 20

# Inserting the Cassette

1 Press OPEN/CLOSE.

entituraman arabita

01-04

05

15

06

06

06

06

09-12, 14, 15

06, 09-12, 14, 15

05

17, 18, 29, 30

21 27

06

08

28

23 21, 22

15

06

06

06

09, 11, 12, 14, 15

22

06, 20

25

06

21

26

05, 19

07

09-16

09-11, 14, 15

Panasonic

BLAUPUNKT

BRANDT

BUSH

DUAL

ELEMIS

**FERGUSON** 

GOODMANS

GRUNDIG

HITACHI

ITT

JVC LOEWE

METZ

MITSUBISHI

MIVAR

NOKIA NORDMENDE

**PHILIPS** 

PYE

RADIOLA

SABA

SALORA

SAMSUNG

SANYO

SBR

SELECO

SIEMENS

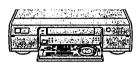
SONY

TELEFUNKEN

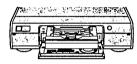
THOMSON

TOSHIBA

The front panel opens.

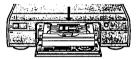


- 2 Press OPEN/CLOSE again.
- The cassette tray is extended.

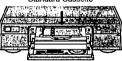


3 Align the cassette with the cassette guide and place it on the tray while ensuring that the side of the cassette with the tape exposed is facing up and the label side is turned toward you.

Mini Cassette



Standard Cassette



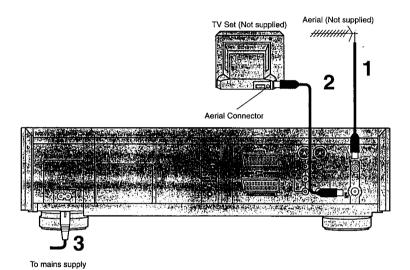
- 4 Press OPEN/CLOSE.
  - The cassette tray is retracted inside the video unit.

# Connections and Settings Without Using a 21-Pin Scart Cable

### 1 Connections

The VCR sends signals to the TV via an RF coaxial cable (supplied).

Make the connections shown in the figure below.



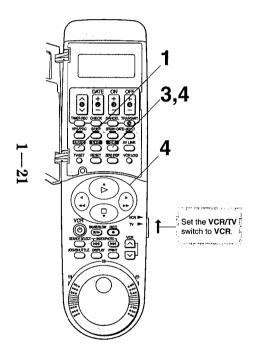
### 2 Settings

Setting a VCR channel on your TV allows you to view the video picture on your TV in the same way that you watch TV broadcasts.

Once the Country setting is completed, the VCR automatically searches for TV stations and sets the clock. (This is known as Auto Setup.)

### Preparation

Turn on the TV and VCR.



### Operations

Keep MENU pressed for 5 seconds or

. Hold down the button until "Ch" appears in the VCR display.

Set the TV to an unused position which you wish to use for your video playback.

> Tune the TV until the test pattern appears on the screen. Consult the operating instruction of your TV to find out how to tune

· The initial setting of

On Screen Display the RF output channel

(Test Pattern)

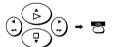
Press OK to exit the Test Pattern screen. The Country

setting screen appears.

ease wait.

\_\_\_\_ Ch 4

Select the desired country. Auto Setup (auto tuning and auto clock settings) then starts automatically.



### To Reset Auto Setup:

Press EXIT, then disconnect and reconnect the power source

The Country setting screen will appear on the screen. Repeat the operations from step 3.

### Notes:

- . The Auto Setup searches for TV stations from VHF minimum to UHF maximum and stores the data for every programme position. The other programme positions are skipped.
- . The Auto Setup takes five minutes or more to search for the TV stations and set the clock.
- If VCR is not set correctly by Auto Setup, see Various Settings on pages 39-42.
- Auto clock setting will not work correctly if teletext information is not available. If the clock setting screen appears after auto tuning has been completed, set the clock manually. Refer to steps 3-5 on page 42.

### To Change the RF Output Channel (using the remote controller):

In some rare cases after Auto Setup, interference may be visible on the picture. To avoid interference, you can manually adjust the RF output channel a few steps up or down from the current setting.

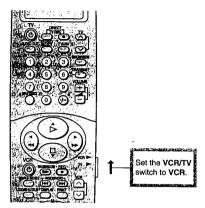
### Operations

- 1 Turn on the TV and VCR.
- 2 Keep MENU pressed for 5 seconds or more.
  - Hold down the button until "Ch" appears in the VCR display.
- 3 Enter the desired channel number (21-69) by using the numeric buttons or > ^ of the remote controller.
  - Be sure that the VCR/TV switch is set to VCR.
  - Set the RF output channel of the VCR to "--" (RF OFF) when the VCR is connected to the TV via the 21pin scart cable.

Press the "0" numeric button or > \( \shcap \) to display "--".



- 4 Press OK to finish the setting mode.
  - Retune your TV to the new channel for the VCR.
  - · After the Country setting is set, the Country setting screen will not be displayed even if the RF output channel is changed and OK is pressed.



### To Check the Settings for Auto Setup:

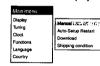
Use the following procedure to check that the settings for Auto Setup are set correctly.

### Operations

1 Press MENU and select Tuning.

On Screen Display





2 Select Manual.





3 Looking at the On Screen Display, check that the settings for Auto Setup are set correctly. If the desired TV stations have all been displayed and are set in the correct order, Auto Setup is completed. If the TV stations have not been correctly entered and set, perform the manual setting procedure on page 39. Press EXIT to exit the On Screen Display.

### Note:

Manual tuning is required when there is a \* mark at the beginning of the station name display, even if the station name is displayed. See page 40.

# Connections and Settings Using a 21-Pin Scart Cable

### 1 Connections

The VCR sends signals to the TV via a 21-pin scart cable (sold separately).

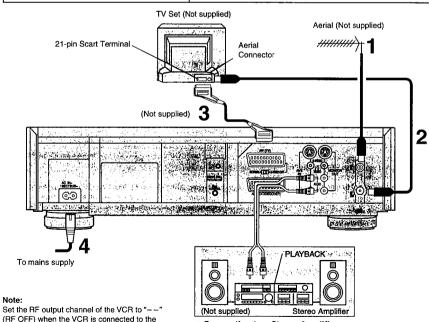
When connecting the VCR to a TV with the "Q Link", "DATA LOGIC", "NEXTVIEWLINK", "Easy Link", "Megalogic", "SMARTLINK", or other logo, the fully-wired 21-pin scart cable should be used in Step 3. If this cable is not used, the "Preset Download" and "Direct TV REC" functions will not operate. (See pages 25 and 30.)

Make the connections as shown in the figure below.

TV via the 21-pin scart cable. See page 20.

After making these connections, one of several setting methods is performed.

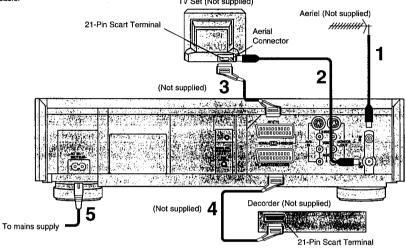
Type of TV	set that you have	Setting method
TV with the "Q Link" or "DATA LOGIC"	TV has not been preset.	Turn on the TV first. Perform Tuner setup as described in the TV operating Instructions.  Download from TV starts and ends automatically.
logo	TV has already been preset.	Go to page 25.
TV with the "NEXTVIEWLINK", "Easy Link", "Megalogic", "SMARTLINK", or other logo	TV has not been preset.	Turn on the TV first. Perform Tuner setup as described in the TV operating instructions.  Download from TV starts and ends automatically.  When Preset Download has finished, select your country (see page 46), and then restart Download (see page 41).
	TV has already been preset.	Go to page 25.
Cases other than the one above		Go to page 23.



### Connection to a Decoder

In addition to the connections described on the previous page, connect the AV2 socket to the decoder using a 21-pin scart cable.

TV Set (Not supplied)



### Notes:

- If the TV set is provided with an RGB-compatible connector, connect the 21-pin AV cable from the VCR to this connector. Use the fully-wired 21-pin scart cable for connecting the TV set and VCR and for connecting the VCR and decoder.
- Set the RF output channel of the VCR to "--" (RF OFF) when the VCR is connected to the TV via the 21-pin scart cable. See page 20.
- AV2 must first be set to DECODER when the decoder is connected to the AV2 socket. (See page 45.)

### AV LINK

With this button, the connected colour TV set can be switched from TV mode to VCR mode (and vice versa) when it is connected by means of 21-pin scart cable. This makes a variety of functions possible, such as simultaneous recording and viewing when a Pay TV decoder or a satellite receiver has been connected.

### VCR mode (VCR indicator lights up):

To enjoy sound and pictures from the VCR.

- When MENU, SET UP or EDIT MENU is pressed and the OSD (On Screen Display) screen is displayed, the unit also automatically switches to VCR mode.
   However, if the unit is originally in TV mode, the VCR indicator is not displayed.
- The unit also automatically switches to VCR mode when playback is started. However, the unit cannot be returned to TV mode during playback.

### TV mode (VCR indicator goes off):

- To watch another programme on the TV while recording on the VCR.
- Select the programme to be watched using the TV set's tuner
- The sound and pictures of a different channel are received by the VCR.

	VCR	TV set
Power On		AV input selected Input from TV set's tuner*
Power Off	_	Input from TV set's tuner

\*When the VCR is set to the TV mode and the Pay TV channel is selected, the signals will still be scrambled even when Pay TV is selected by the TV set's tuner. In this case, either set the VCR to the VCR mode or switch the TV set's input signals to AV input.

Connection to a Stereo Amplifier

### 2 Settings

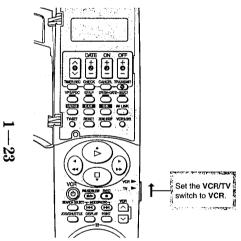
### Auto Setup

This setting is used when the VCR is not connected to a TV with the "Q Link", "DATA LOGIC", "NEXTVIEWLINK", "Easy Link", "Megalogic", "SMARTLINK", or other logo using a fully-wired 21-pin scart cable.

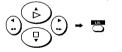
The VCR automatically searches for TV stations and sets the clock. (This is known as Auto Setup.)

### Preparation

Turn on the TV and VCR.



The **Country** setting screen appears. Select the desired country. On screen



- On Screen Display

Country

Beigé Deutschland
Beigege Osternisch
Deutschland
Segnal Surma
España Sweige
France Schweiz
Islam Suisse
Nederland Svizzer
None others

lease wait

\_\_\_\_ Ch 4

 Auto Setup (Auto tuning and Auto clock setting) starts automatically.

Auto-Setup

Auto-Setup

In progress.

### To Reset Auto Setup:

Press EXIT, then disconnect and reconnect the power source. The Country setting screen will appear on the screen.

### Notes:

- The Auto Setup searches for TV stations from VHF minimum to UHF maximum and stores the data for every programme position. The other programme positions are skipped.
- The Auto Setup takes five minutes or more to search for TV stations and set the clock.
- If VCR is not set correctly by Auto Setup, see Various Settings on pages 39-42.
- Auto clock setting will not work correctly if teletext information is not available. If the clock setting screen appears after auto tuning has been completed, set the clock manually.
- Refer to steps 3-5 on page 42.
- If you change the tuning details of the TV after Auto Setup has been performed on the VCR, the new information may be automatically downloaded to the VCR, and the input content of Auto Setup may be erased. If this happpens, repeat Auto Setup.

### To Check the Settings for Auto Setup:

Use the following procedure to check that the settings for Auto Setup have been correctly made.

### Operations

1 Press MENU and select Tuning.





2 Select Manual.



	Name	Ch	Pos Name (
1	ARD	1	11 OR9 3
2	ZDF	2	12 RTL+
3	NDR3	19	13 SAT1
4	HR3	26	14
5	BR3	18	15
6	RB3	3	16
7	SFB3	36	17
8	SW3	29	18
9	WDR3	17	19
10	MDR3	32	20

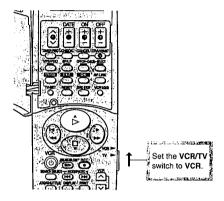
3 Looking at the On Screen Display, check that the settings for Auto Setup are set correctly. If the desired TV stations have all been displayed and are set in the correct order, Auto Setup is completed. If the TV stations have not been correctly entered and set, perform the manual setting procedure on page 39. Press EXIT to exit the On Screen Display.

### Note:

Manual tuning is required when there is a \* mark at the beginning of the station name display, even if the station name is displayed. See page 40.

### The "Q Link" functions





When the VCR is connected to a TV with the "Q Link", "DATA LOGIC", "NEXTVIEWLINK", "Easy Link", "Megalogic", "SMARTLINK", or other logo using a fully-wired 21-pin scart cable, you can use the "Q Link" functions.

The following Q Link functions are available.

### 1 Preset Download

When the VCR is connected to the TV, the station list data will be copied from the TV to the VCR, and the TV channels will be preset on the VCR. See page 25.

### 2 Direct TV REC

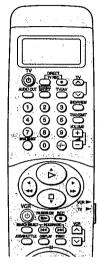
This function allows you to immediately record the programme you are watching on the TV at the moment by simply pressing **DIRECT TV REC**. See page 30.

### 3 TV/VCR Auto Power On

(This function is only available when the VCR is connected to a TV with the "Q Link" or "DATA LOGIC" logo.)

Even if the TV or VCR is in the standby mode, the TV and VCR will automatically turn on when one of the buttons [>> (PLAY) or CHECK] is pressed.

 When a cassette with the opened record prevention tab is inserted into the VCR, the VCR starts up and automatically begins playback. The TV also turns on.



### 4 VCR Auto Power Off

(This function is only available when the VCR is connected to a TV with the "Q Link" or "DATA LOGIC" logo.)

Turning the TV off will also turn the VCR off. However, this operation works only when the VCR has been set to Rewind or Stop mode, or there is no tape inside

- If the Power Off command is received while the VCR is rewinding the tape, the VCR will not turn off until rewinding is completed.
- This operation does not work when settings are being mode. (Download, Auto Setup, Auto Clock Setting, Manual Search)

### 5 TV On Screen Display Message

(This function is only available when the VCR is connected to a TV with the "Q Link" or "DATA LOGIC" logo.)

With this function, VCR messages appear on the TV screen even in the TV mode.

Message Conditions when message appears

This programme has already started

Timer recording is starting.

### Note:

Depending on the TV, the message may not appear correctly.

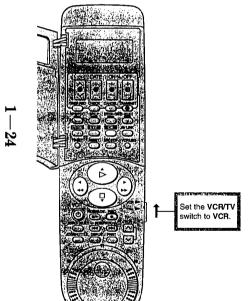
23

### **Preset Download**

This setting is used when the VCR is connected to a TV with the "Q Link", "DATA LOGIC", "NEXTVIEWLINK", "Easy Link", "Megalogic", "SMARTLINK", or other logo using a fully-wired 21-pin scart cable.

When the VCR is connected to the TV, the station list data will be copied from the TV to the VCR, and the TV channels will be preset on the VCR.

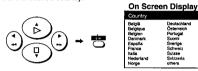
This function is known as "Preset Download".



Applicable to TVs with the "Easy Link", "Megalogic" and "SMARTLINK" logo:

The Country setting screen appears when the VCR is turned on after being connected to the TV using the fully-wired 21-pin scart cable.

Select the desired country.



 Next, the "Download" screen appears, and downloading begins immediately.

Applicable to TVs with "Q Link" and "DATA LOGIC": If the VCR is connected to a TV with the "Q Link" or "DATA LOGIC" logo, the "Download" screen appears, and downloading begins immediately.



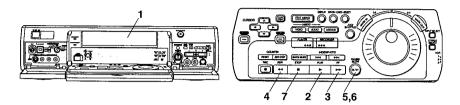
 When downloading from TV has finished, the programme of the station with the lowest channel number which can be tuned in is received automatically.

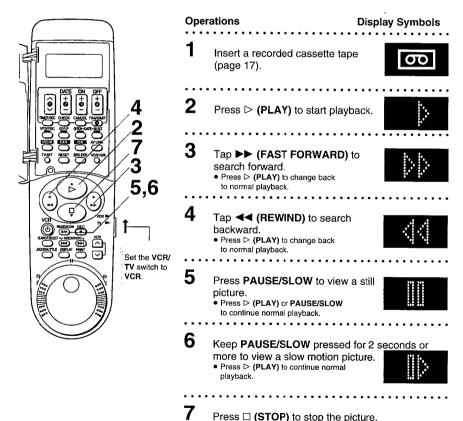
### Note:

Download will only work when the VCR is connected to a TV with the "O Link", "DATA LOGIC", "NEXTVIEWLINK", "Easy Link" "Megalogic", "SMARTLINK", or other logo using a fully-wired 21-pin scart cable.

When this condition is not met, Auto Setup will be executed. (See page 23.)

# Playback



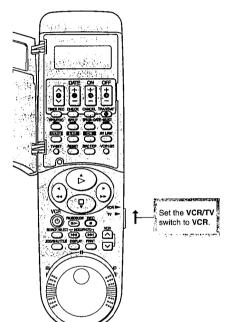


### Note

If you keep ►► (FAST FORWARD) or ◄◄ (REWIND) pressed in step 3 or 4, search playback is activated while the button is pressed, and operation returns to normal playback when the button is released.

# Manual Recording

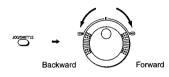
### Other Playback Functions



25

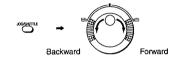
- To Change the Playback Speed

  1 Press JOG/SHUTTLE on the remote controller or the editing controller.
- The button on the editing controller is lit.
- 2 Rotate Shuttle Ring.



### To Locate the Desired Picture Exactly

- 1 Press JOG/SHUTTLE on the remote controller or the editing controller.
  - The button on the editing controller is lit.
- 2 Turn Jog dial.



### To View the Video During Fast Forward or Rewind

Keep▶▶ (FAST FORWARD) pressed during fast forward. Keep ◄ (REWIND) pressed during rewind.





### To Return to a Specified Scene

After playback, press ZERO STOP in the stop mode.

- The tape will be rewound or fast forwarded to 0:00.00 approximately.
- . During Time code display, this function will not work.

### Automatic Playback

When a cassette with the opened record prevention tab is inserted, the VCR starts playback automatically.

### VCR-off Playback

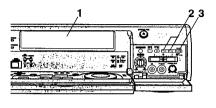
When the VCR is off, an inserted cassette can be played back by pressing ▷ (PLAY).

### **Automatic Rewinding**

When the tape reaches the end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

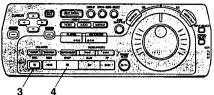
. During OTR, this function will not work.

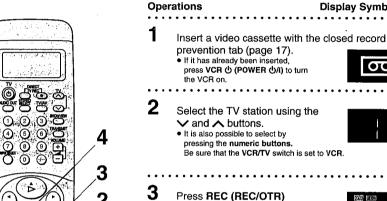
Cue, review or slow playback will be automatically cancelled after 10 minutes, and still playback after 5 minutes.



**\*\*\*\*\*\*\*\*\*\*\*** 

COMPOSITION FROM





Set the VCR/

TV switch to

VCR.

Press REC (REC/OTR) to start recording.



**Display Symbols** 

Press (STOP) to stop recording.

### To Select the Desired Tape Speed Press SP/LP before recording.



### To Pause Recording

Press PAUSE/SLOW during recording. Press again to continue recording.



### To Select the Desired Audio Mode

Perform the procedure below using the editing controller.

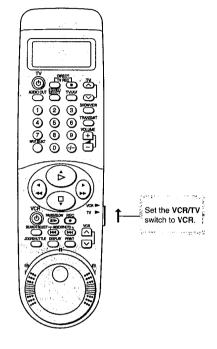
- 1 Press SET UP.
- 2 Using ▲ ▼, select Audio Mode and press OK.
- 3 Using **◄▶**, select **12bit** or **16bit**, then press **OK**.

For details, see Initial Settings for Editing on page 58.

### To Record One TV Programme while Viewing Another

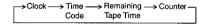
After step 3, change to the TV channel of the programme you want to view.





### To Display the Remaining Tape Time

Press **DISPLAY** repeatedly until the Remaining Tape Time appears on the VCR display.



 The remaining tape time may not be displayed correctly for some tapes.

### Recording Stereo and Bilingual Programmes

- 1 Recording is automatically made in the stereo and bilingual mode. This prevents errors in the selection of the dubbed or the original language.
- 2 During playback press AUDIO OUT to select the desired sound mode. See page 8.

### Notes:

- When a video cassette with the opened record prevention tab is inserted, the "cod" indication will flash to indicate that recording is not possible.
- The recording pause mode will be automatically cancelled after 5 minutes and return to the stop mode.

### The NICAM Broadcast System

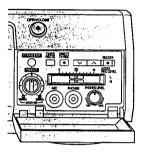
AG-DV2700 is also equipped with the NICAM sound system.

NICAM is a 2 Channel sound broadcast system that provides either a high quality stereo sound track or 2 independent MONO sound tracks, M1 and M2. NICAM programmes are always accompanied by standard sound broadcasts and you can select the desired sound with AUDIO OUT during playback.

 To record the regular sound (ordinary normal sound) on the FM audio tracks when a Stereo, Bilingual or NICAM programme is received, select Mono ON during manual tuning procedure. See page 40.

### Important Note for the NICAM System When AG-DV2700 is switched on, the tuner will

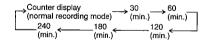
automatically switch to a NICAM broadcast, if NICAM is being transmitted. During test transmissions, it is possible that the sound received doesn't correspond to the picture being viewed. In order to receive a synchronized sound and picture, select Mono ON setting. This will only apply until NICAM transmissions are fully operational. Even if the sound track is in MONO, the stereo indicator will appear.



### One-Touch Recording (OTR)



After you start recording, you can use this function to stop recording automatically when the programme is finished (useful for recording when you are out). Simply set the recording duration by pressing REC/OTR repeatedly. The duration indicated on the VCR display changes by pressing REC/OTR as follows:



### Preparation

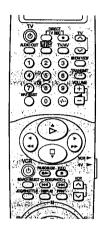
Insert a video cassette with the closed record prevention tab.

### Operations

- Set the video source which is to be recorded, and start recording.
- Press REC/OTR repeatedly to select the desired recording duration.
  - The VCR will automatically switch off when OTR is completed. To turn the VCR on again, press VCR & (POWER &/I).

### Notes:

- The OTR function works during normal recording or Direct TV REC.
- When the tape reaches the end during OTR, the VCR will turn itself off.
- To stop OTR at any time, press □ (STOP) or VCR (b) (POWER (b/I)).



### **Direct TV REC**

This function allows you to immediately record the programme you are watching on the TV at the moment by simply pressing **DIRECT TV REC**.

However, this function works only when this VCR is connected to a TV with the "Q Link", "DATA LOGIC", "NEXTVIEWLINK", "Easy Link", "Megalogic", "SMARTLINK", or other logo using the fully-wired 21-pin scart cable.

### Preparation

Insert a video cassette with the closed record prevention tab

### Operation

When you are watching TV and you want to record the programme immediately, press DIRECT TV REC on the VCR main unit or remote controller.

The recording will start.

 It is not necessary to adjust the programme position of your VCR to the TV station that you are watching now.

### Notes:

- Even if the programme positions are not the same, the programme position of the VCR switches to the same position of the TV. When recording is finished, the programme position of the VCR returns to the previous position.
- . Do not press AV LINK during Direct TV REC.
- Recording may not be performed normally.
- In some cases, it may not be possible to change the TV channel during Direct TV REC.
- Check beforehand whether the tape may be used for recording.

### Timer Recording

### **Timer Recording**

This function allows you to record programmes

There are three ways to record programmes: ShowView programming, where you enter the ShowView number, and On Screen Display recording, where you enter the recording information yourself while viewing the On Screen Display.

### ShowView Programming

Programming is now easier than ever; simply enter the ShowView number provided in the programme schedule carried by newspapers and magazines.

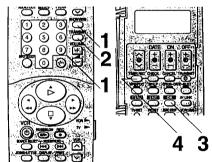
ShowView numbers are numbers which are assigned to each programme listed in the TV programme schedule carried in newspapers and TV guides. When these numbers are entered and TRANSMIT is pressed, the numbers are converted to the actual programming.



### Preparations

27

- . Insert a video cassette with the closed record prevention
- . Confirm that the TV is on and the VCR viewing channel is



Follow the on screen operation guide

### Operations

Press SHOWVIEW and then enter a ShowView number using the numeric buttons.

Example: 920126

**Display Symbols** 

. If you have entered the wrong ShowView number, repeat step 1 with the correct ShowView

Press TRANSMIT.

Pos Name	DATE		Start	Sipp	SP	VPS POC	Min
ARD	27/10	₩.	15:00	15.30	SP		×
		-					
-		-	**	**			

- The Programming data that you entered also appears on the VCR display.
- To extend the ending time or to make any corrections, use ▲ ▼ ◀ ▶ or VPS/PDC.
- See page 35 for VPS/PDC recording.

If "--" appears in the programme position: Use ▲ or ▼ to select the programme position of

your VCR which receives the required TV station.

on the On Screen

seconds



- I flashes as a warning on the VCR display.
- Once programming is performed after the programme position has been selected here, the quide channel will be automatically stored so that the correct position will appear when the ShowView code for this station is next entered.

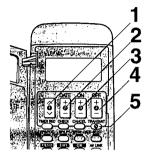
Press OK for confirmation.

Press TIMER REC to activate timer recording.

 Check that □ is lit on the VCR display. If it is flashing, check the timer recording details again. (See page 34.)

- To select the desired tape speed, press SP/LP in step 1.
- . To cancel standby mode, press TIMER REC.
- · When the ShowView number is used for programming, the recording time may be slightly longer than the actual programme time.
- . When programming the recording of two or more programmes, repeat steps 1-3.
- The procedures for checking, modifying and cancelling a timer programme are the same as on page 34.

### Using the Remote Controller



### Preparations

- Insert a video cassette with the closed record prevention
- . Confirm that the TV is on and the VCR viewing channel is selected.

### For Example:

Programme position (channel): Date: 27th October

Starting time: 20:00 Ending time: 21:00 (Present date:16th October)

### Operations

Set the programme position (channel)

**Display Symbols** 0

Set the date to "27/10".





Set the starting time to "20:00".





· When it is kept pressed, the indication changes in 30-minute intervals. 

### Set the ending time to "21:00".





### Press TRANSMIT.





- · To release from the standby mode, press TIMER
- See page 35 for VPS/PDC recording.
- To make a change to what has been programmed (for instance, to change VPS/PDC to ON or OFF), follow the procedure for On Screen Display Programming, (See page 33.)

To select the desired tape speed, press SP/LP in any of steps 2-4.

### **Weekly Timer Recording**

In step 2, select the desired day by pressing DATE (-). (SU=Sunday, MO=Monday, TU=Tuesday, WE=Wednesday, TH=Thursday, FR=Friday, SA=Saturday)

### Daily Timer Recording

For this timer function, several groups of days can be

- (A) Daily recording from Monday to Friday (MO-FR)
- (MO-SA)
- © Daily recording from Sunday to Saturday (SU-SA)
- In step 2, select the desired days by pressing DATE (-).

### Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to AV1 (TV), AV2(EXT/DECODER) socket or AV3 (Audio/Video/S-Video input sockets), select A1, A2 or A3 for the programme position.

- Through the AV1 (TV) socket.
- Through the AV2 (EXT/DECODER) socket.
- Through the AV3 (AUDIO IN/VIDEO IN/S-VIDEO IN) sockets on front panel.
- Timer Recording is not possible if DV IN is set to the programme position.

### Using On Screen Display

Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including weekly and daily programmes.

### **Preparations**

- Insert a video cassette with the closed record prevention tab
- Confirm that the TV is on and the VCR viewing channel is selected.

27th October

20:00

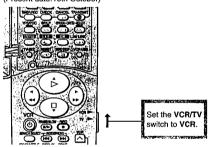
21:00

### For Example:

Programme position (channel): Date:

Starting time: Ending time:

(Present date:16th October)



Follow the on screen operation guide

### Operations

28

- 1 Press CHECK.
- Select the unoccupied position, and then press OK. On Screen Display
- 3 Set the programme position (channel) to "2".





4 Set the date to "27/10".

| Times recording | Plant DATE | Set | Sep | Se | Visio Minimum | Sep | Se

5 Set the starting time to "20:00".



Timer resording
Pos Start Stop SP VPS
Neme DATE ON OFF LP PDC Min
ZDF 27/10 Vis 80000 -- SP ---

- When it is kept pressed, the indication changes in 30-minute intervals.
- Set the ending time to "21:00".



7 Select the desired Tape speed (SP/LP).





Set VPS/PDC to ON or OFF (---).

• See page 35 for VPS/PDC recording.

Times recording

Pas Name DATE Start Stop SP VPS Name DATE ON OFF UP PDC Min 200 21:00 SP ON 60 CT | 100 CT | 1

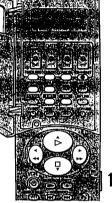
9 Press OK for confirmation.

10 Press TIMER REC to activate timer recording.

- When the On Screen Display for programming timer recording turns off, the recording information is automatically sorted in the order of recording start times.
- Check that [] is lit on the VCR display.
   If it is flashing, check the timer recording details again. (See page 34.)

### Note:

To cancel from the standby mode, press TIMER REC.



Set the VCR/TV switch to VCR.

### **Weekly Timer Recording**

In step 4, select the desired day by pressing ▼. (Su=Sunday, Mo=Monday, Tu=Tuesday, We=Wednesday, Th=Thursday, Fr=Friday, Sa=Saturday)

### **Daily Timer Recording**

For this timer function, several groups of days can be selected.

- Daily recording from Monday to Friday (Mo-Fr)
- Baily recording from Monday to Friday (Mo-Fr)
   Baily recording from Monday to Saturday (Mo-Sa)
- © Daily recording from Sunday to Saturday (Su-Sa) In step 4, select the desired cays by pressing ▼.

### Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to AV1 (TV), AV2(EXT/DECODER) socket or AV3 (Audio/Video/S-Video input sockets), select A1, A2 or A3 for the programme position.

- A1: Through the AV1 (TV) socket.
- A2: Through the AV2 (EXT/DECODER) socket.
- A3: Through the AV3 (AUDIO IN/VIDEO IN/S-VIDEO IN) sockets on front panel.
- It is also possible to select by pressing INPUT SELECT.
- Timer Recording is not possible if DV IN is set to the programme position.

### Setting other Programmes

Repeat steps 2-9 on page 33.

### **Checking a Timer Programme**

Confirm that the TV is on and the VCR viewing channel is selected.

- 1 Press CHECK.
  - The On Screen Display may be distorted in the VPS/ PDC recording standby mode.
- 2 Press CHECK or EXIT to exit the On Screen Display.

### On Screen Display

Time	reco	HC	inq				
Pos Name	DATE		Start	Stop	SP LP	VPS POC	Min
ZDF NDR3	27/10 Su	W	23.00	21:00 23:30	SP UP	ON	50 30
	==	=			=	=,	=
		••					

### **Modifying a Timer Programme**

- During timer recording, this operation will not work.
- Confirm that the TV is on and the VCR viewing channel is selected.
- 1 Press CHECK.



- 2 Select the desired timer programme.
- 3 Modify the programme, following the method described in steps 2-8 on page 33.
- 4 Press OK.
- 5 Press CHECK or EXIT to exit the On Screen Display.

### Cancelling a Timer Programme

- During timer recording, this operation will not work.
- Confirm that the TV is on and the VCR viewing channel is selected.
- 1 Press CHECK.



- 2 Select the desired timer programme.
- 3 Press CANCEL.



4 Press CHECK or EXIT to exit the On Screen Display.

### Notes:

- If timer recording does not reach the end (due to insufficient tape or cancellation by the user), the programmed timer recording data will be erased from the memory by 4 a.m. the next day.
- Either the position number or the station name is displayed here.



 For daily and weekly timer recording, the recording time for only one recording session is displayed.

### Checking the Remaining Tape Time

• This displays the remaining time for the inserted tape.



Remainig time indicator

 This indicator is not displayed unless the remaining tape time has already been indicated on the VCR display.
 Refer to page 29.

### VPS (Video Programme System)/PDC (Programme Delivery Control)

The Video Programme System (VPS) or the Programme Delivery Control (PDC) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start or extension of the programme duration. Also, if a programme is interrupted and, for example, some special news is inserted, the recording will also be interrupted automatically and resumed when the programme continues.

Depending on the signals sent from the broadcasting

Depending on the signals sent from the broadcasting stations, the VPS/PDC system may not operate properly even when VPS/PDC has been set to ON. Please check with the broadcasters in your area for details.

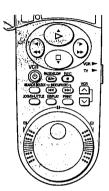
 In the case of VPS/PDC recording, use the correct time (VPS/PDC time) for recording the TV programmes.
 Set VPS/PDC to OFF when the recording time is not the correct time (VPS/PDC time).
 VPS/PDC recording is not performed when the time (VPS/PDC time) is incorrect, even if only by one minute.
 To find out the correct time (VPS/PDC time), consult a newspaper or magazine, or other source.

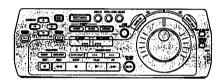
- If the actual broadcasting times of timer recordings overlap (regardless of whether they are VPS/PDC controlled), the recording that starts first always has priority, and the recording of the later beginning programme will start only after the first timer recording has finished
- When the VPS/PDC signal drops out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular VPS/PDC signal, the timer recording will be performed in the normal mode (without VPS/PDC) even if it was programmed for VPS/PDC. In this case, even if the timer recording is performed, whatever has been programmed will not be cancelled at that particular time but at 4 a.m. on the following day.
- The start times of scheduled programmes listed in the newspaper or magazine may be changed at a later date. Set VPS/PDC to OFF when programming a programme whose start time has been subsequently changed. Particular care must be taken in this respect with ShowView programming since VPS/PDC is automatically set to ON in some countries.
- If a programme listed in a newspaper or magazine has two ShowView numbers, use the ShowView number for VPS/PDC if you wish to proceed with VPS/PDC recording using ShowView programming.
- The default settings for VPS/PDC differ depending on the country concerned. Refer to the table below.

Programming method Selected Country	ShowView programming	Changes in ShowView program- ming start time	Non- ShowVlew program- ming
France, Belgium, Netherlands, Sweden, Denmark, Finland, Norway	ON	OFF	OFF
Germany, Switzerland, Austria, other countries	ON	ON	ON
Italy, Spain, Portugal	OFF	OFF	OFF

• "---" appears for the VPS/PDC item at the outset if the broadcasting station is not transmitting VPS/PDC signals.

# Search Functions





### Index Search System

It is easy to find the beginning of each recording because a special index signal is recorded at the start of each recorded segment on the tape.

### For example:

Searching for the 2nd recorded segment in the forward direction.

1 Press SEARCH SELECT so that "--" appears on the VCR display.

(This operation is performed while the VCR is in the stop mode or normal playback mode.)



- 2 Press INDEX/PHOTO ►► twice.
  - After finding the specific recorded segment, playback starts automatically.

To stop the operation at any time Press (STOP).

- For the reverse direction, press INDEX/PHOTO I◄◄.
- Up to 20 index signals can be searched for in either direction.
- When the opposite INDEX/PHOTO is pressed, the number shall be decreased until 1 is reached.
- The figure on the display is reduced by 1 each time an index signal is located.
- The INDEX search function can only work correctly if the index signals are spaced at least 5 minutes apart.
- Repeat the procedure if the index signal for the specified number is not found.

### Recording Index Signals

Index signals are recorded in the following cases.

- When a recording is started by pressing REC (REC/ OTR)
- · When timer recording is activated.
- When REC on the remote controller or the editing controller is pressed during recording.

### Photoshot Index Search System

Photo shot index signals are automatically recorded when a Panasonic Digital Video Camera is used for photo shot mode. Photo shot images are searched using these signals, and when such an image is located, the image is played back as a still picture.

### For example:

Searching for the 2nd photo shot image in the forward direction.

1 Press SEARCH SELECT so that "P --" appears on the VCR display.



- 2 Press INDEX/PHOTO ►►I twice.
  - The image to be viewed will be found.



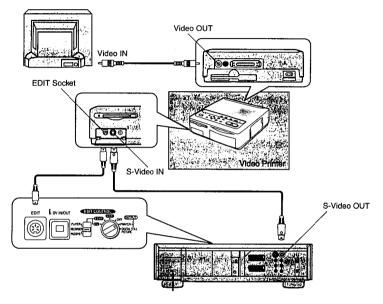
- For the reverse direction, press INDEX/PHOTO เ◄◄.
- Any of up to 20 images ahead on the tape can be designated.
- When the opposite INDEX/PHOTO is pressed, the number shall be decreased until 1 is reached.
- The figure on the display is reduced by 1 each time an index signal is located.
- It may not be possible to search for a particular image properly if photo shot images have been recorded continuously.
- At every press of the corresponding button, the tape is fast-forwarded or rewound to the next still picture recorded in the Photoshot Mode.
   After reaching the next still picture the still picture is

After reaching the next still picture, the still picture is played back continually together with the sound (only for approx. 4 seconds).

Display Symbols

# Using the VCR with a Video Printer

Still pictures can easily be printed out when the VCR is connected to a Panasonic video printer equipped with an EDIT



### Preparation

· Connect a video printer to this VCR as shown.



### Video Printer:

- 1 Turn the Video Printer on.
- 2 Make the necessary settings on the Video Printer according to the input signal.

### VCR: .

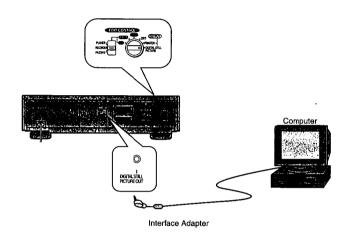
- 3 Turn the VCR on.
- Set EDIT CONTROL to PRINTER.
- 5 Press ▷ (PLAY).
- Search for the picture from which you would like to print, and then press PAUSE/SLOW.
- 7 Press PRINT.

### Notes:

- · Read the operating Instructions of the Video Printer.
- The OSD and DATE/TIME display are also printed out. If a picture without these displays is required, proceed as
- Set OSD on the VCR's Main menu to OFF.
- · Press DATE-OFF/ON on the remote controller or editing controller.
- Printing cannot be stopped at any point in time until it is
- · For printing, screens cannot be divided and the zoom function cannot be used.

# Using the VCR with a Computer

The Personal Computer Connection Kit VW-DTA1E (Optional) for Digital Video Equipment makes it possible to connect the VCR to a computer and transmit still video images to it.



### **Computer System Requirements**

DV STUDIO can be installed in a PC/AT personal computer which can run Microsoft® Windows® 95.

Compatible machines: Personal computer with

80486DX4 or higher CPU(Pentium™ or higher

recommended)

Graphic card: True Color (approx.16.7million

colours) recommended (operation also possible even

with 256 colours)

16 MB or more (32 MB or more Installed memory:

recommended) Free hard disk space: At least 10 MB

CD-ROM drive Serial port: RS-232C (D-Sub 9pin)

Other requirements:

Disk drive:

To connect the VCR to the computer, use the special Interface Adaptor contained in the Personal Computer Connection Kit.

- Pictures that you intend to import into a computer application should be recorded in the SP Mode.
- When recording, take care that the Time code is uninterrupted from the beginning of the tape.
- Windows® 95 is a trademark of Microsoft Corporation U.S.A.
- Pentium<sup>™</sup> is a trademark of Intel Corporation.
- · All other company and product names in the operating instructions are trademarks of their respective

corporations.

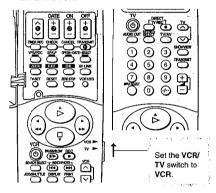
## Storing TV Stations into Your VCR

The VCR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.

If VCR is not correctly tuned by Auto Setup, follow the procedure below.

#### Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.



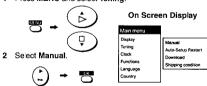
## Manual Tuning Procedure

Follow the on screen operation guide.

# When deleting stations, adding "blank" positions and changing (moving) the programme position:

These indications do not appear on the screen after performing Preset Download (Download).

1 Press MENU and select Tuning.



3 Select the desired programme position.



Pos Name Ch Pos Name Ch | Pos

4 Follow the steps indicated below.



Delete: Press VPS/PDC (red) to delete the station.

Add: Press SP/LP (green) to add a blank position

Move: Press DATE-OFF/ON (yellow) to change

(move) the programme position.

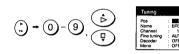
- The blue indication represents no function.
- These indications do not appear after performing Preset Download (Download).
- 5 Press OK, and then press EXIT.

#### Changing the Programme Position (Pos)

Follow 1 to 3 in the first procedure.

4 Press OK and then select Pos.

Be sure that the VCR/TV switch is set to VCR.



- 5 Press OK to confirm.
- 6 Press MENU, and then press EXIT.

#### Changing the Channel (Channel)

Follow 1 to 3 in the first procedure.

- 4 Press OK and then select Channel.
  - . Be sure that the VCR/TV switch is set to VCR.

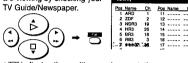


- 5 Press OK to confirm.
- 6 Press MENU, and then press EXIT.

#### Changing the Station name (Name)

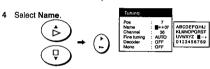
Follow steps 1 to 2 on page 39.

3 Select the station(s) name \* \leftarrow \l



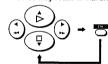
On Screen Display

"" indicates the position number or station name.
 This is the same as steps 4 and 5.



Enter characters into all five \*\cord \cord \cor

 To cancel during entry, press EXIT.
 The characters that have been entered will remain as the station name. Enter the correct station name as failure to do so may result in malfunctioning.



- 5 Press MENU. If any other station names are marked \*□□□□, repeat steps 3-5.
- 6 Press EXIT.

#### Fine Tuning

Follow steps 1 to 3 on page 39.

4 Press OK and then select Fine tuning.



- 5 Press ▲ or ▼ to obtain the best tuning condition.
  - To return the tuning to its former state (AUTO), press ►.
- 6 Press OK to confirm.
- 7 Press MENU, and then press EXIT.

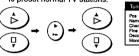
#### Decoder

Follow steps 1 to 3 on page 39.

4 Press OK and then select Decoder ON or Decoder

ON: To preset pay TV stations.

OFF: To preset normal TV stations.

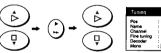


- 5 Press OK to confirm.
- 6 Press MENU, and then press EXIT.

#### Changing the Recording Sound (Mono)

Follow steps 1 to 3 on page 39.

- 4 Press OK and then select Mono OFF.
  - Select Mono ON to record the normal sound during a stereo, bilingual or NICAM broadcast or if the stereo sound is distorted due to inferior reception conditions.



- 5 Press OK to confirm.
- 6 Press MENU, and then press EXIT.

- When channels have been set with Manual Tuning, the channel position will need to be entered the first time ShowView is used.
- If you change the tuning details of the TV after Manual Tuning has been performed on the VCR, the new information may be automatically downloaded to the VCR, and the input content of Manual Tuning may be erased. If this happens, perform VCR Auto Setup or Downloading and then repeat Manual Tuning.

#### Channel Plan

Channel	TV Channel		
Indication	Germany/italy	Other Countries	
2-12	*E2-E12	E2-E12	
13-20	A-H (Only Italy)	-	
21-69	21-69	21-69	
74-78	S01-S05	S1-5	
80-82	S1-S3	M1-M3	
83-89	S4-S10	M4-M10	
90-99	S11-S20	U1-U10	
121-141 Hyperband	**S21-S41	S21-S41	

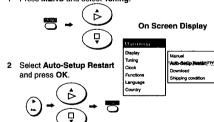
\*In Italy: H1...(11), H2...(12)
\*\*Only for 8 MHz channel raster

 This channel plan has been designed for continental Europe, and may differ according to the region.

#### **Auto-Setup Restart**

When your address changes, follow the procedure below.

1 Press MENU and select Tuning.



3 Press OK again.

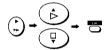


#### Download

To perform downloading again, follow the procedure below in the stop mode.

1 Press MENU and select Tuning.





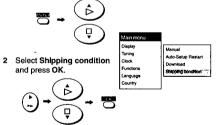
3 Press OK again.



### **Shipping Condition**

If you want to return the VCR to the factory-preset condition, follow the procedure below.

1 Press MENU and select Tuning.



3 Press OK twice.

#### Note:

41

To re-tune the VCR, disconnect and then reconnect the mains lead.  $\,$ 

## Setting the Clock of Your VCR

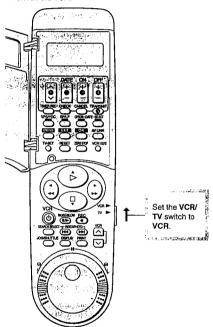
The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system. If VCR is not correctly set by Auto Setup, follow the procedure below.

The clock backup system operates for at least 60 minutes in the event of power failure.

#### **Preparations**

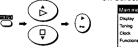
- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR.



## Manual Clock Setting Follow the on screen operation guide.

#### Operations

Press MENU, and then select Clock.
On Screen Display

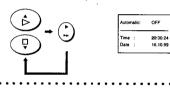


## 2 Check that the **Automatic** setting is **OFF**, then press **OK**.

 If the setting is ON when you open the On Screen Display, do not turn it OFF, as then you will not be able to set the time automatically.



Set Time and Date.



4 Press **OK** to confirm.

5 Press EXIT.

#### Note:

When the Automatic setting is **OFF**, the time may become incorrect. If this happens, reset it following the method described above.

### **Automatic Clock Setting**

When "Automatic" is set to ON, the automatic time correcting function is activated every day. The automatic time correcting function is only activated when the power is off.

This function is not activated during timer recording standby

#### lote:

Even if "Automatic" is set to ON, if the time is incorrect, check first that the country has been selected correctly (see page 46), re-set "Automatic" to ON following step 2, then always press OK.

## Settings Using On Screen Display

The VCR indications shown on the TV screen are known as the On Screen Display (OSD).

This VCR allows many settings to be made at the OSD.

#### **Preparations**

- Confirm that the TV is on and the VCR viewing channel is selected.
- Turn on the VCR and TV.

#### Display

#### **Channel Guide**

1 Press MENU, and then select Display.



2 Select Channel Guide.







3 Select ON or OFF.



ON: The Channel Guide will appear for a few seconds each time the

a few seconds each time the channel is changed with 

The Channel Guide will not appear.

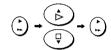
4 Press EXIT to exit the On Screen Display.

#### OSD

1 Press MENU, and then select Display.



2 Select OSD.



3 Select AUTO, ON or OFF.



AUTO: The On Screen Display will appear on the TV screen for a few seconds when you operate

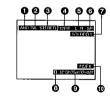
the VCR.

ON: The On Screen Display will always appear on the TV screen when you perform the VCR.

DFF: The On Screen Display will not appear.

4 Press EXIT to exit the On Screen Display.

To use the On Screen Display:



- TV station
- Video system
- 3 STEREO, M1 or M2 Indicator

When receiving a TV programme with the Stereo, Bilingual or NICAM sound system, the type of sound system in which it is broadcast is automatically indicated.

STEREO:

: When receiving a Stereo/NICAM

stereo broadcast.

M1/M2: When

When receiving a Bilingual/NICAM dual-sound broadcast.

M1: When receiving a NICAM monaural

broadcast.

Audio Data Indicator

#### Audio Output Mode Indicator

The Left (L) and Right (R) Indicators show which sound mode is selected with AUDIO OUT

(see page 8).

Stereo: Both the L and R Indicators appear.

Left: The L Indicator appears.
Right: The R Indicator appears.

#### Tape speed Indicator

#### Audio Monitor Indicator

STEREO1: 12bit STEREO1 sound STEREO2: 12bit STEREO2 sound

MIX: STEREO1 and STEREO2 mixed sound

#### Tape running display

44
<b>&gt;&gt;</b>
<b>&gt;</b>
◀
41
I <b>►</b>
П
•

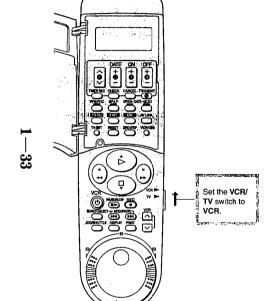
#### Present time/Time code/Remaining tape time/ Tape counter/Index/Photoshot Index Search/ One-Touch Recording (OTR)

Present time	17:24:31	
Time code	TC 0h25m32s04f	
Remaining tape time	REMAIN: 1:16	
Tape counter	-1:35.47	
Index/Photoshot index Search	<b>▶▶</b> 02	
One-Touch Recording (OTR)	OTR 60	

#### Index/Photoshot Index Search Indicator

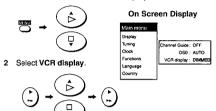
#### Notes:

- When the item OSD is set to OFF, the On Screen Display will not appear.
- When the AV position (A1, A2, A3 or DV IN) has been selected or during playback, the On Screen Displays (①.②.③) do not appear.
- On Screen Display is not displayed when the SET UP or EDIT MENU screen is displayed.
- On Screen Display () is not displayed while playing a tape that was recorded in 16bit audio mode.
- When a wide-display TV is used as a monitor, parts of the On Screen Display may not be visible depending on the type of broadcast (16:9, PAL Plus) received.



#### VCR display

1 Press MENU, and then select Display.



3 Select ON, OFF or DIMMED.



ON: When VCR is turned off, the characters are lit

in the VCR display.

OFF: When VCR is turned off, the characters are

not lit in the VCR display.

DIMMED: When VCR is turned off, the characters are

dimmed in the VCR display.

4 Press EXIT to exit the On Screen Display.

### **Functions**

#### AV2

1 Press MENU, and then select Functions.



3 Select EXT or DECODER.



EXT:

When another VCR or a satellite

receiver is connected to the AV2 (EXT/DECODER) socket.

DECODER: When the decoder is

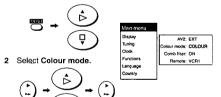
When the decoder is connected to the

AV2 (EXT/DECODER) socket.

4 Press EXIT to exit the On Screen Display.

#### To Set the Colour Mode

1 Press MENU, and then select Functions.



3 Select COLOUR or B/W.



COLOUR:

When performing recording and

playback in colour.

W: When performing recording and

playback in black-and-white.

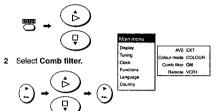
4 Press EXIT to exit the On Screen Display.

#### Note:

When **Colour mode** is set to **B/W**, the On Screen Display will be displayed in black-and-white.

#### Comb filter

1 Press MENU, and then select Functions.



3 Select ON or OFF.

ON:



Set to increase detail. Normally set to this

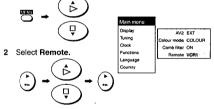
position.

OFF: Set to reduce picture noise.

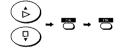
4 Press EXIT to exit the On Screen Display.

#### To Set the Remote mode

1 Press MENU, and then select Functions.



3 Select VCR1, VCR2 or VCR3.



This allows the remote controller to be set for operating VCR1, VCR2 or VCR3.

- When changing the remote control mode, press VCR1/2/3 to change the remote control mode of the remote controller. If this is not done, it will not be possible to operate the VCR using the remote controller.
- 4 Press EXIT to exit the On Screen Display.

#### Language

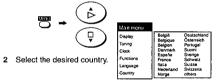
1 Press MENU, and then select Language.



3 Press EXIT to exit the On Screen Display.

#### Country

1 Press MENU, and then select Country.





3 Press EXIT to exit the On Screen Display.

## **Editing Functions**

Using this VCR, 4 types of **One-Touch-Edit**, 3 types of **Manual Editing** and 3 types of **Programme Editing** can be selected.

In Programme Editing, after setting the edit start/end point, editing can be performed automatically. Edit programmes can be set up to 10 scenes for each editing function (40 scenes for Assemble editing).

#### One-Touch-Edit

- Assemble Editing (page 62)
- Insert Editing (Video, Audio, AV) (page 64)
- Audio Dubbing (page 64)
- Audio Mixing (page 66)

#### Manual Editing

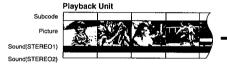
- Copying (page 68)
- Insert Editing (Video, Audio, AV) (page 70)
- Audio Dubbing (page 72)

#### Programme Editing

- Assemble Editing (page 74)
- Insert Editing (Video, Audio, AV) (page 78)
- Audio Dubbing (page 82)

#### Copying

Allows the re-recording (copying) of the picture and sound from one tape onto another tape.





Performing the Copying operation on a tape that was recorded in 12bit audio mode.

#### Video Insert

Allows the partial replacement of the picture on a recorded tape. Sound is left in its original state.

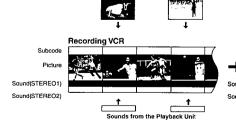
#### **Audio Insert**

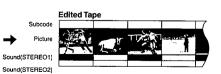
Allows the partial replacement of sound on a recorded tape. Picture is left in its original state.

#### **AV Insert**

Allows the partial replacement of the picture and sound on a recorded tape.

Pictures from the Playback Unit

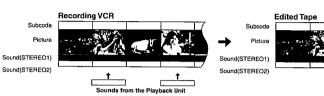




Performing the AV Insert editing operation on a tape that was recorded in 12bit audio mode.

#### **Audio Dubbina**

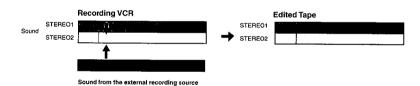
Allows the addition of the new sound on the STEREO2 track of a recorded tape. The original sound is left on the STEREO1 track.



Performing the Audio Dubbing operation on a tape that was recorded in 12bit audio mode.

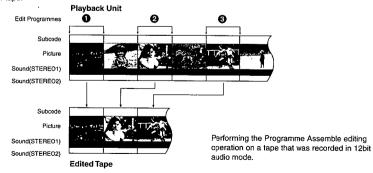
#### **Audio Mixing**

Allows the mixing of the the original sound on the STEREO1 track with the new sound from the external recording source and recording the mixed sound on the STEREO2 track of a recorded tape. The original sound is left on the STEREO1 track.



#### Assemble Editing

Allows the required scenes (picture and sound) to be picked up from a recorded tape and recorded in any desired order onto another tape.



## Creating the Tapes For Editing

## In order to operate editing functions correctly, use these tapes for editing as follows:

- Tape on which the picture and sound have been recorded properly for about 20 seconds prior to the edit start point: [Playback unit] [Recording unit] This VCR first rewinds the tape to the section prior to the edit start point and then commences editing. For this reason, accurate editing cannot be performed if the tape has been left blank or if the picture and sound have not been recorded properly for 20 seconds prior to the edit start point.
- Tape on which the Time code has been recorded continuously: [Playback unit] [Recording unit]

If the recording is broken up or if the tape is blank in places, the Time code will lack continuity, and editing will be aborted.

- Tape which was recorded in SP mode: [Recording unit]
   (This applies to Insert, Audio Dubbing and Audio Mixing only.)
   The above types of editing operations cannot be performed on a tape which was recorded in the LP mode.
- Tape which was recorded in the 12bit audio mode: [Recording unit] (This applies to AV Insert, Audio Dubbing and Audio Mixing editing only.)
   The above types of editing operations cannot be performed on a tape which was recorded in the 16bit audio mode.

When a tape which was recorded on another video recorder is used for Insert, Audio Dubbing or Audio Mixing editing operations, the sound may deteriorate and the picture may be disturbed.

# If tapes answering to the above description are not available, proceed with dubbing by following the steps below to create the tapes for editing.

- 1 Load the original cassette tape into the playback unit and the new cassette tape into the recording VCR (the AG-DV2700).
- 2 Connect the playback unit and recording VCR (the AG-DV2700). For the connection, use the DV cable when the contents of the original cassette are to be copied using their original digital signals, and use the AV cable when the contents are to be copied using the signals from the video and audio sockets. (To dub a 16bit audio tape and make a 12bit audio tape, connect the units using the AV cables, and proceed with the dubbing.)
- 3 Check that EDIT CONTROL is at the OFF position.
- 4 Set the VCR's tape speed to SP.
- 5 Record a blank picture for about 20 seconds. Set the playback unit to the stop mode, set INPUT SELECT on the recording VCR (the AG-DV2700) to A2 or A3, and start recording.
- 6 Switch over the input of the recording VCR (the AG-DV2700). If the DV cable was used for the connection in step 2, switch over to "DV IN"; if the AV cable was used, switch over to A1, A2 or A3.
- 7 Press the play button on the playback unit to start playing the original tape.
- 8 Press REC (REC/OTR) on the recording VCR (the AG-DV2700) to start dubbing.

#### Notes

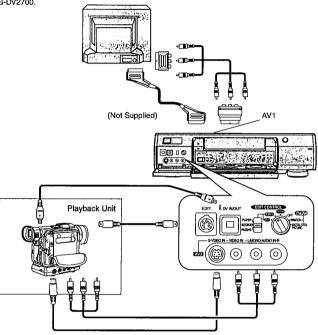
- Digital copying using a DV cable yields a picture quality which undergoes hardly any deterioration at all.
- If a digital video tape is dubbed without connecting the DV cable, the original sub code data (Photoshot index signals, date information, etc.) will not be copied.
- The Time code is simultaneously recorded over the sub code of the tape when the tape is recorded. Also recorded in the sub code are the photoshot index signals, information on the recording date, etc.

For further details on the Time code, see page 92.

## Connecting with a Digital Video Camera

Example for connecting Panasonic AG-EZ30 Digital Video Camera as the playback unit, when controlling the playback unit

through the AG-DV2700.



#### Notes:

- · Before connecting any cables, first make sure that the power for both units is off.
- . Insert a recorded cassette into the playback unit, and a cassette with the closed record prevention tab into the VCR.
- If the playback unit is connected to the recording unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority. If the playback unit does not have an S-VIDEO socket do not connect the S-VIDEO cable to the AG-DV2700.
- If units are connected to the VIDEO input sockets on both the front and rear of this VCR, the rear video inputs are automatically switched off.
- Use of an AC adaptor as the power source for the Digital Video Camera is recommended. Doing so avoids a situation where the camera shuts down due to low battery
- It is recommended that the DV cable be disconnected for editing with INPUT SELECT set to A1-A3. If INPUT SELECT is set to A1-A3 with the connections shown in the figure left unchanged, the TV picture may be disturbed or noise may occur. (This has no effect on the actual editing operations.)
- When the units are connected using the DV cable and editing is performed, some editing functions will differ compared with when the units are connected using the AV cable. Refer to Glossary of Terms on page 92.

- When performing editing by connecting the units via a 21pin scart cable, set the AV2 setting to EXT. See page 45.
- Read the operating instructions of the Digital Video
- Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to guit these screens before changing these settings.
- · When using a Panasonic Digital Video Camera as the playback unit, the following editing functions can be used by connecting the camera to the AG-DV2700 with just a DV cable:

Copying

Video Insert

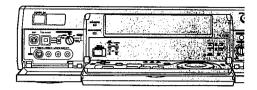
Audio Insert

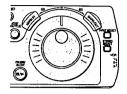
Assemble

In this case, simply set INPUT SELECT to DV IN, and set EDIT CONTROL to DV.

(This function may not operate properly with some

• Use Time codes for Programme Editing when the playback unit is connected to the AG-DV2700 via only a DV cable.

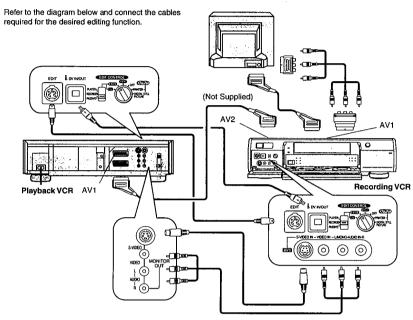




Playback Unit (Digital Video Camera)		Recording Unit (the AG-DV2700)	
1	Turn the power on.	1	Turn the power on.
2	Make the Time code appear on the LCD monitor or the viewfinder.	2	Set EDIT MODE to RECORDER.  EDIT CONTROL  PLANE H.  RECORDE D.  PROPRIED D.  PROPRI
3	Prepare the tape for playback.	3	Set EDIT CONTROL to EDIT.
		4	Press INPUT SELECT on the editing controller so that DV IN is selected.  • When performing Audio Dubbing or AV Insert, select A2 or A3.

50

Example for connecting two AG-DV2700s, when controlling the playback VCR through the recording VCR.



#### Notes:

- · Before connecting any cables, first make sure that the power for both VCRs is off.
- Insert a recorded cassette into the playback VCR, and a cassette with the closed record prevention tab into the VCR.
- When the units are connected using the DV cable and editing is performed, some editing functions will differ compared with when the units are connected using the AV cable. Refer to Glossary of Terms on page 92.
- Use Time codes for programme editing when the playback VCR is connected to the AG-DV2700 via only a DV cable.
- . When performing editing by connecting the units via a 21pin scart cable, set the AV2 setting to EXT. See page 45.
- . It is recommended that the DV cable be disconnected for editing with INPUT SELECT set to A1-A3. If INPUT SELECT is set to A1-A3 with the connections shown in the figure left unchanged, the TV picture may be disturbed or noise may occur. (This has no effect on the actual editing operations.)
- If one of either the 21-pin scart cable or the AV cable is connected, it is not necessary to connect the other. If both cables are connected, electronic noise may be generated when the playback VCR and the recording VCR are in stop mode. Although this noise will not have any effect on the actual editing operations, if it does become annoying, set the INPUT SELECT on the playback VCR to a position for which no cable is connected.

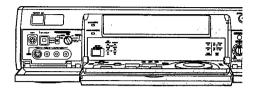
- · When the connections and setting are made as shown above, then:
  - The Timer recording On Screen Display cannot be displayed on the playback VCR.
  - The ▷(PLAY), ▶▶(FAST FORWARD), REC (REC/ OTR), and the other such buttons on the playback VCR or the remote controller cannot be used to control the playback VCR directly. In order to permit direct control, set EDIT CONTROL on the playback VCR to OFF.
- Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to quit these screens before changing these settings.
- · The following editing functions can be used by connecting the playback VCR with just a DV cable: Copying

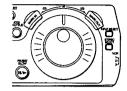
Video Insert

Audio Insert

Assemble

In this case, simply set INPUT SELECT to DV IN, and set EDIT CONTROL to DV.



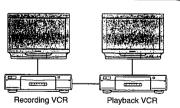


Playback VCR		Recording VCR	
1	Turn the power on.	1	Turn the power on.
2	Set EDIT MODE to PASSIVE.    COLUMN   C	2	Set the EDIT MODE to RECORDER.  EDIT CONTROL  PLATE   PROTECT    PROTECT    PROTECT   PROTECT    PROTECT   PROTECT    PROTECT   PROTECT    PROTECT    PROTECT    PROTECT    PRO
3	Set EDIT CONTROL to EDIT.	3	Set EDIT CONTROL to EDIT.
		4	Press INPUT SELECT on the editing controller so that DV IN is selected.  • When performing Audio Dubbing or AV Insert, select A2 or A3.

#### Controlling the Recording VCR through the Playback VCR

Follow the procedure described below:

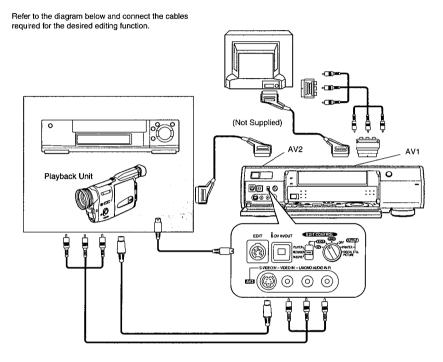
- · Connect the edit cable to the EDIT socket on both the playback VCR and the recording VCR.
- Use 21pin-scart cable or AV cables to connect the input sockets on the recording VCR with the output sockets on the playback VCR.
- · Connect two TVs, one to each of the VCRs, so that the screens from both VCRs can both be seen.
- Set EDIT CONTROL on both the playback VCR and the recording VCR to EDIT.
- Press INPUT SELECT on the playback VCR and select a position to which a cable is not connected.
- Set EDIT MODE on both VCRs as follows: Playback VCR : PLAYER Recording VCR : PASSIVE



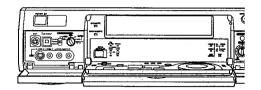
- · When this connection is made, the recording VCR cannot be controlled using the DV cable.
- · Although noise may appear on the screen, depending on the connections, the noise has no effect on the actual editing operations.
- · Audio insert and AV Insert are not possible in this configuration
- When performing editing with this connection, the editing accuracy may be worse than when controlled from the recording VCR.

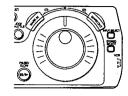
## Connecting an S-VHS (VHS) Video **Equipment with an Edit Socket**

Example for connecting an S-VHS (VHS) video equipment with an Edit socket as the playback unit, when controlling the playback unit through the recording VCR (this unit).



- . Before connecting any cables, first make sure that the power for both units is off.
- . Insert a recorded cassette into the playback unit, and a cassette with the closed record prevention tab into the
- . If the playback unit is connected to the recording unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority. If the playback unit does not have an S-VIDEO socket do not connect the S-VIDEO cable to the AG-DV2700.
- If units are connected to the VIDEO input sockets on both the front and rear of this VCR, the rear video inputs are automatically switched off.
- . When performing editing by connecting the units via a 21pin scart cable, set the AV2 setting to EXT. See page 45.
- . If one of either the 21-pin scart cable or the AV cable is connected, it is not necessary to connect the other. If both cables are connected, electronic noise may be generated when the playback VCR and the recording VCR are in stop mode. Although this noise will not have any effect on the actual editing operations, if it does become annoying, set the INPUT SELECT on the playback VCR to a position for which no cable is
- · Read the operating instructions of the playback unit. Do not change the EDIT CONTROL or EDIT MODE. settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to quit these screens before changing these settings.
- . When using this VCR as the recording VCR and performing editing by connecting the units via the AV cable or a 21-pin Scart cable, the On Screen Display (date/time, Time Code) may scroll vertically when still playback or slow playback are performed by the playback





## Playback Unit (S-VHS (VHS) Video Equipment with an Edit socket)

Turn the power on.

Set the unit so that it is ready to be controlled.

> · Read the operating instructions of the playback unit and make the necessary settings.

## Recording VCR (the AG-DV2700)

Turn the power on.

Set EDIT MODE to RECORDER.



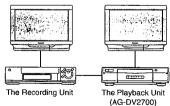
Set EDIT CONTROL to EDIT.

Press INPUT SELECT on the editing controller so that A3 is selected.

. If the playback unit is connected to the external input on the rear of the AG-DV2700, select A2.

#### Connecting the AG-DV2700 as the Playback VCR to an S-VHS (VHS) VCR Follow the procedure described below.

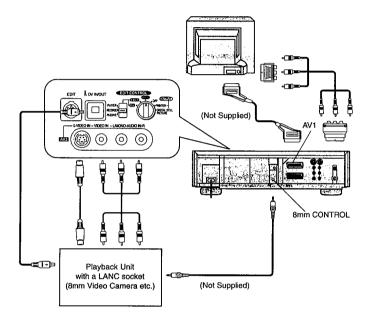
- . Connect the edit cable to the EDIT socket on both the playback VCR and the recording VCR.
- Use 21pin-scart cable or AV cables to connect the output sockets on the AG-DV2700 with the input sockets on the S-VHS (VHS) VCR.
- . Connect two TVs, one to the AG-DV2700 and one to the S-VHS (VHS) VCR, so that the screens from both VCRs can both be seen.
- Set EDIT CONTROL on the AG-DV2700 to EDIT.
- Set EDIT MODE on the AG-DV2700 to PLAYER.
- Press INPUT SELECT on the playback VCR and select a position to which a cable is not connected.
- . Make the necessary editing control settings for the S-VHS (VHS) VCR. (Read the operating instructions of S-VHS (VHS) VCR.)



Audio Insert and AV Insert are not possible in this configuration.

# Connecting a Video Equipment with a LANC Socket

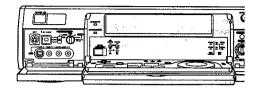
Example for connecting another manufacturer's video equipment with a LANC terminal (L control) as the playback unit, when controlling the playback unit through the VCR.

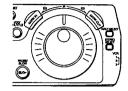


#### Notes:

- Before connecting any cables, first make sure that the power for both units is off.
- Insert a recorded cassette into the playback unit, and a cassette with the closed record prevention tab into the VCR
- The AG-DV2700 cannot be controlled through video equipment with a LANC socket.
- Some types of LANC sockets have a different shape to the LANC socket on the AG-DV2700.
- If an attempt is made to perform an operation through the AG-DV2700 that the playback unit does not support, the unit may operate incorrectly.
- If the playback unit is connected to the recording unit via an S-VIDEO cable, the video signal on the S-VIDEO cable takes priority. If the playback unit does not have an S-VIDEO socket do not connect the S-VIDEO cable to the AG-DV2700.

- If units are connected to the VIDEO input sockets on both the front and rear of this VCR, the rear video inputs are automatically switched off.
- When the units are connected using the DV cable and editing is performed, some editing functions will differ compared with when the units are connected using the AV cable. Refer to Glossary of Terms on page 92.
- Read the operating instructions of the playback unit.
- Do not change the EDIT CONTROL or EDIT MODE settings while performing setting or editing operations at the SET UP or EDIT MENU screens. Be sure to quit these screens before changing these settings.
- When using this VCR as the recording VCR and performing editing by connecting the units via the AV cable or a 21-pin Scart cable, the On Screen Display (date/time, Time Code) may scroll vertically when still playback or slow playback are performed by the playback VCP.





Playback Unit
(a Video Equipment with a
LANC socket)

Recording VCR
(the AG-DV2700)

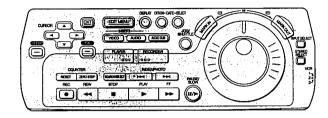
Turn the power on.

Turn the power on.

- 3 Press INPUT SELECT on the editing controller so that A3 is selected.
  - If the playback unit is connected to the external input on the rear of the AG-DV2700, select A2.
  - When the playback unit is connected via a DV cable, select DV IN.
  - When performing Audio Dubbing or AV Insert, select A2 or A3.

## Initial Settings for Editing

This VCR also allows some settings for editing to be made at the On Screen Display (OSD).



#### Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- · Complete necessary connections and settings. See pages 50-57.

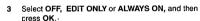
#### Search with Sound

1 Press SET UP.





2 Select Search With Sound and press OK.





OFF:

The sound cannot be heard during

special playback.

EDIT ONLY: The sound can be heard during special playback only when an editing operation

is in progress.

ALWAYS ON: The sound can be always heard during special playback.

4 Press EXIT to exit the On Screen Display.

#### Audio Mode

1 Press SET UP.



2 Select Audio Mode and press OK.



3 Select 12bit or 16bit, and then press OK.



12bit:

Divides the audio area into two stereo audio tracks, STEREO1 and STEREO2.

•If a recording is made in 12bit audio mode, the sound is recorded on STEREO1 only, and is not recorded on STEREO2. STEREO2 is used to record new audio that is added through Audio Dubbing or Audio Mixing.

16bit: Uses the entire audio area in order to record audio with greater quality.

4 Press EXIT to exit the On Screen Display.

#### One-Touch-Edit

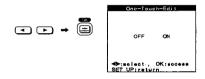
1 Press SET UP.



Select One-Touch-Edit and press OK.



3 Select OFF or ON, and then press OK.



OFF: Select this whenever you are performing

any editing function other than One-

Touch-Edit.

Select this in order to perform One-ON:

Touch-Edit.

One-Touch-Edit is possible only when EDIT CONTROL is set to either DV. EDIT, or 8mm, and EDIT MODE is set to RECORDER.

4 Press EXIT to exit the On Screen Display.

#### **AV-IN Colour Level**

1 Press SET UP.



2 Select AV-IN Colour Level, and press OK.



3 Select SOURCE or ADJUST, and then press OK.



SOURCE: Normally set this position.

To adjust the colour level of the input ADJUST:

external recording source.

If you select ADJUST and then press OK, the AV-IN Colour Level screen is displayed.

Adjust the colour level using ◀▶



Press ◀ to make the colour lighter

Press ▶ to make the colour darker

The setting can be adjusted over a range of ±20.

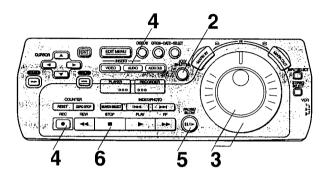
5 Press SET UP, and then press EXIT to exit the On Screen Display.

- If INPUT SELECT is set to DV IN, the Audio Mode menu, and the AV-IN Colour Level menu cannot be selected.
- The SET UP or EDIT MENU screen is displayed in English, regardless of the language that is set for the On Screen Display.
- The AV-IN Colour Level menu can be selected in following cases:

INPUT SELECT is set to A1, A2 or A3: When the VCR is in stop mode

## Editing when Not Using an Edit Cable

To connect a VCR or Movie Camera without an Edit Socket and use the AG-DV2700 as the Recording VCR.



#### Preparations

- Complete necessary connections and settings.
   See pages 50-59.
- Connect the AV1 socket on the AG-DV2700 to the TV.
   Connect the AV2 socket or the AUDIO/VIDEO/S-VIDEO IN (AV3) sockets on the AG-DV2700 to the playback unit.
- Set INPUT SELECT on this VCR as follows:
  A2: Through the AV2 socket
- A3: Through the AV3 sockets on the front panel or rear panel.
- If the playback unit has a DV terminal, connect to the DV IN/OUT on the AG-DV2700 with a DV cable.

#### Operations

- Using the controls on the playback unit, search for the edit start point, and then pause the playback.
- Press JOG/SHUTTLE on the AG-DV2700, and check that the button is lit.



3 Search for the edit start point.



Press the button for the editing mode on the AG-DV2700.

To copy the contents of the tape in the playback unit as is: Press REC.

To insert picture: Press VIDEO INSERT.
To insert sound: Press AUDIO INSERT.
To insert picture and sound: Press VIDEO INSERT and then press AUDIO INSERT (or vice versa).
To add new sound: Press AUDIO DUB.
For Audio Mixing: Press AUDIO DUB and then press MIXING EDIT on the front right panel.

- The Audio Mixing procedure differs in part from other editing operations. See page 66.
- The indicator that corresponds to the selected editing mode lights on the VCR display.

 Press PAUSE/SLOW on the AG-DV2700 and start playback on the playback unit simultaneously.
 Editing begins.

Press ■ (STOP) on the AG-DV2700, and then press STOP on playback unit to stop editing.

#### Notes:

- Allhough Copying can be performed in LP mode, Insert and Audio Dubbing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (the AG-DV2700) is: Recorded in LP mode:

Blank, or contains a blank portion in the middle.

 AV Insert, Audio Dubbing and Audio Mixing are not possible in the following cases:

When the tape in the recording VCR (the AG-DV2700) is: Recorded in 16bit audio mode;

Recorded in LP mode:

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

 If the time display on the AG-DV2700 is set to tape counter mode during editing, the AG-DV2700 stops the editing operation automatically when the counter reaches "0:00.00".

(This function does not work when using the Copying or Audio Dubbing functions.)

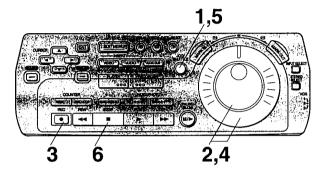
#### Indicators On the VCR Display

OOV SWITTLE AUDIOU SWITTLE SWI

VIDEO INSERT AUDIO INSERT

AV INSERT AUDIO DUBBING AUDIO MIXING

If the One-Touch Edit function is used, Assemble editing can be performed by controlling the playback unit through the AG-DV2700.



#### Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Complete necessary connections and settings. See pages 50-59.
- Set to One-Touch-Edit ON on SET UP menu.

#### **Operations**

Press **JOG/SHUTTLE** on the AG-DV2700, and check that the button is lit.



2 Search for the edit start point on the AG-DV2700.



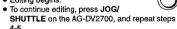
3 Press REC.

 The picture from the playback unit appears on the screen. Search for the edit start point on the playback unit using Jog dial and Shuttle Ring on the AG-DV2700.



Press **JOG/SHUTTLE** on the AG-DV2700.

· Editing begins.



6 Press ■ (STOP) on the AG-DV2700, to stop editing.

#### Notes

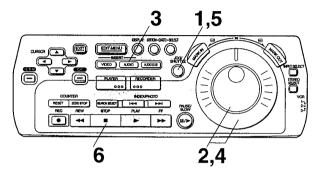
- Although Assemble editing can be performed in LP mode, Insert, Audio Dubbing, and Audio Mixing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- When using the editing controller for remote control:
   In order to conserve battery power, JOG/SHUTTLE turns off after one minute.

If JOG/SHUTTLE turns off after the edit start point has been set on the recording unit (step 2), it is necessary to press JOG/SHUTTLE again (so that it is lit) before searching for the edit start point on the playback unit. If JOG/SHUTTLE turns off after the edit start point has been determined on the playback unit (step 4), it is necessary to press JOG/SHUTTLE twice in order to start editing.



## One-Touch Insert /Audio Dubbing

If the One-Touch Edit function is used, Insert (Video Insert, Audio Insert, and AV Insert) and Audio Dubbing can be performed by controlling the playback unit through the AG-DV2700.



#### **Preparations**

- . Confirm that the TV is on and the VCR viewing channel is selected.
- · Complete necessary connections and settings. See pages 50-59.
- Set to One-Touch-Edit ON on SET UP menu.

#### Operations

Press JOG/SHUTTLE on the AG-DV2700, and check that the button is lit.



Search for the edit start point on the AG-DV2700.

Press the button for the editing mode on the AG-DV2700.

To insert picture: Press VIDEO INSERT. To insert sound: Press AUDIO INSERT. To insert picture and sound: Press VIDEO INSERT and then press AUDIO INSERT (or vice versa). To add new sound: Press AUDIO DUB.

- The indicator that corresponds to the selected editing mode lights on the VCR display.
- The picture from the playback unit appears on the screen.

Search for the edit start point on the playback unit using Jog dial and Shuttle Ring on the AG-DV2700.



Press JOG/SHUTTLE on the AG-DV2700.

· Editing begins.

· To continue editing, press JOG/ SHUTTLE on the AG-DV2700, and repeat steps 4-5.

Press ■ (STOP) on the AG-DV2700, to stop editing.

#### To monitor the edited audio after Audio Dubbing

Press STEREO SELECT during playback and select STEREO2.

#### Notes:

· Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (the AG-DV2700) is: Recorded in LP mode:

Blank, or contains a blank portion in the middle. AV Insert and Audio Dubbing are not possible in the following cases:

When the tape in the recording VCR (the AG-DV2700) is: Recorded in 16bit audio mode: Recorded in LP mode;

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

• If the time display on the AG-DV2700 is set to tape counter mode during editing, the AG-DV2700 stops the editing operation automatically when the counter reaches "0:00.00".

#### Indicators On the VCR Display





VIDEO INSERT





AV INSERT

AUDIO DUBBING

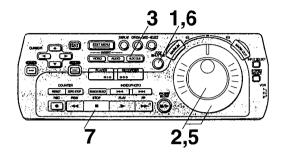
• In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.

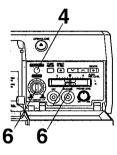
 When using the editing controller for remote control. in order to conserve battery power, JOG/SHUTTLE turns off after one minute.

If JOG/SHUTTLE turns off after the edit start point has been set on the recording unit (step 2), it is necessary to press JOG/SHUTTLE again (so that it is lit) before searching for the edit start point on the playback unit. If JOG/SHUTTLE turns off after the edit start point has been determined on the playback unit (step 4), it is necessary to press JOG/SHUTTLE twice in order to start

This function is used to mix the audio on STEREO1, which has already been recorded, with audio from a external recording source (A2 or A3), and record the result on STEREO2.

This function is useful for adding new audio, such as music or a narration, to the original audio which has already been recorded.





#### **Preparations**

- Confirm that the TV is on and the VCR viewing channel is selected.
- Complete necessary connections and settings.
   See pages 50-59.
- Set to One-Touch-Edit ON on SET UP menu.

#### Operations

Press JOG/SHUTTLE on the AG-DV2700, and check that the button is lit.



2 Search for the edit start point on the AG-DV2700.

Press AUDIO DUB on the AG-DV2700.

> The picture from the playback unit appears on the screen.

#### Notes:

 Audio Mixing is not possible in the following cases: When the tape in the recording VCR (the AG-DV2700) is: Recorded in 16bit audio mode; Recorded in LP mode;

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

 In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape. Press MIXING EDIT on the AG-DV2700.

Search for the edit start point on the playback unit using Jog dial and Shuttle Ring on the AG-DV2700.



Press **JOG/SHUTTLE** on the AG-DV2700.

- · Editing begins.
- If you wish to adjust the volume of the original audio (STEREO1) and external recording source (A2 or A3) during Audio Mixing,

AUDIO MIX: To adjust the volume of the original audio (STEREO1).

AUDIO REC LEVEL:

To adjust the volume of the audio from external recording source (A2 or A3).

 To continue editing, press JOG/SHUTTLE on the AG-DV2700, and repeat steps 5-6.

7 Press ■ (STOP) on the AG-DV2700, to stop editing.

## To monitor the mixed signal after Audio Mixing

Press STEREO SELECT during playback and select STEREO2.

#### When editing with a microphone

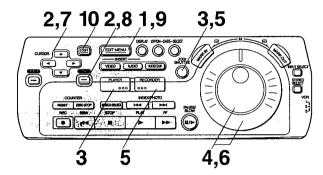
- Connect the microphone to the MIC socket.
- 2. Press JOG/SHUTTLE.
- Use Jog Dial and Shuttle Ring to search the recording start point.
- Press AUDIO DUB.
- 5. Press MIXING EDIT.
- Use AUDIO REC LEVEL
   slider to adjust the
   microphone level.
- 7. Press PAUSE/SLOW.
- Press (STOP) to stop editing



- The audio from the microphone is recorded as monaural audio. Use audio cables to connect audio equipment, etc., in order to record in stereo.
- If both the MIC socket and the line inputs are connected, the audio from the MIC socket is given priority in recording.

# Manual Copying

This function can be used to copy tapes between digital video equipments with practically no deterioration in quality. This function can also copy a tape that was recorded in S-VHS (VHS) format onto a digital video tape.



#### **Preparations**

- Confirm that the TV is on and the VCR viewing channel is selected.
- Complete necessary connections and settings.
   See pages 50-59.

#### Operations

46

- 1 Press EDIT MENU.
- Check that Copying is selected and press OK.
  - ¯ \_ **—** •
- Press PLAYER, and then press JOG/ SHUTTLE.
  - The picture from the playback unit appears on the screen.



Search for the edit start point on the playback unit.

#### On Screen Display







• The picture from the recording VCR appears on the screen.





Search for the edit start point on the recording VCR.

7 Select Start Copying.





Press EDIT MENU to stop editing.



 Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to start.

10 Press EXIT.



The On Screen Display disappears.

#### Notes:

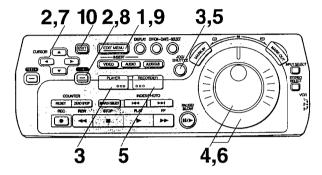
- If a digital video tape is copied without connecting a DV cable, the original sub code data (photoshot index signals, recording date, etc.) is not copied.
- Although Copying can be performed in LP mode, Insert and Audio Dubbing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up to ±1 second of slight deviation in the specified edit start position can be corrected. See page 90 for Edit Timing Adjustment.





# Manual Insert

This function is used to replace the picture and sound on a recorded tape.



#### Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- Complete necessary connections and settings.
   See pages 50-59.

Example: Video Insert

#### Operations

1 Press EDIT MENU.



2 Select Video Insert, and then Press

OK.
To insert picture: Select Video Insert.

To insert sound: Select Audio Insert.
To insert picture and sound: Select AV Insert.





3 Press PLAYER and JOG/SHUTTLE.

• The picture from the playback unit appears on the screen.



Search for the edit start point on the playback unit.



On Screen Display







 The picture from the recording VCR appears on the screen.

Search for the edit start point on the







Select Start Insert.

recording VCR.



Press OK.
• Editing begins.



**9** Press **EDIT MENU** to stop editing.



 Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to start.

10 Press EXIT



● The On Screen Display disappears.



#### Notes:

Video Insert and Audio Insert are not possible in the following cases:

When the tops in the recording VCP (the AC DV2700) is:

When the tape in the recording VCR (the AG-DV2700) is: Recorded in LP mode; Blank, or contains a blank portion in the middle.

AV Insert is not possible in the following cases:
 When the tape in the recording VCR (the AG-DV2700) is:

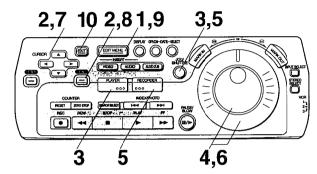
When the tape in the recording VCR (the AG-DV2700) i Recorded in 16bit audio mode; Recorded in LP mode:

Blank, or contains a blank portion in the middle. When **INPUT SELECT** is set to DV IN.

- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up to ±1 second of slight deviation in the specified edit start position can be corrected. See page 90 for Edit Timing Adjustment.

# Manual Audio Dubbing

This function is used to add new sound on the STEREO2 track of previously recorded tape.



#### **Preparations**

- . Confirm that the TV is on and the VCR viewing channel is selected.
- Complete necessary connections and settings. See pages 50-59.

#### Operations

Press EDIT MENU.



Select Audio Dubbing, and then Press OK.





Press PLAYER and JOG/SHUTTLE.

• The picture from the playback unit appears on



Search for the edit start point on the playback unit.

#### On Screen Display





Press RECORDER and JOG/ SHUTTLE.

> . The picture from the recording VCR appears on the screen.



Audio Dubbing

Search for the edit start point on the recording VCR.

Select Start Dubbing.



Press OK. · Editing begins.



Press EDIT MENU to stop editing.



· Operation now returns to the screen which appears in step 3. This makes it possible to continue with editing or change the point at which editing is to start.

10 Press EXIT.



The On Screen Display disappears.

## To monitor the mixed signal after Audio

Press STEREO SELECT during playback and select STEREO2.

#### Notes:

- Audio Dubbing is not possible in the following cases: When the tape in the recording VCR (the AG-DV2700) is: Recorded in 16bit audio mode; Recorded in LP mode;
- Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The pause operation may be indicated on the display of the playback unit even though the playback unit is actually playing the tape in slow motion.
- Up to ±1 second of slight deviation in the specified edit start position can be corrected. See page 90 for Edit Timing Adjustment.

Dubbing in Progress

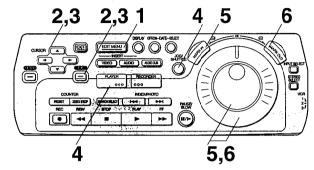
EDIT MENU: stop



## Programme Assemble

This function can be used to link together desired scenes on a tape.

This function can also be used to skip unnecessary scenes recorded on a tape and copy them onto a separate tape.



#### Preparations

- Confirm that the TV is on and the VCR viewing channel is
- · Complete necessary connections and settings. See pages 50-59.

#### Operations

Press EDIT MENU.



Select Programme Editing, and then Press OK.





On Screen Display

EDIT MENU Copying Video Insert Audio Insert AV Insert Audio Dubbing Programme Editing

#### Notes:

- · Programme Editing can be performed using either the tape counter or Time code display, but the Time code display should be used if the units are connected only by a DV cable
- If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display, the Erase all programmes screen is displayed.
- (The Erase all programmes screen is also displayed when you change from the tape counter display to the Time code display.)
- · After setting a programme, if you attempt to set another programme in a different editing operation, the set contents for the previous editing operation remain on the setting screen. In order to prevent editing errors, perform the Erase all programmes operation (page 87) whenever you set a programme under a different editing mode.
- Programme editing can not be performed with a movie camera that has a 4-digit counter.

Select Assemble, and then Press OK.





Press PLAYER and JOG/SHUTTLE

The picture from the playback unit appears on the screen.





Search for the edit start point on the playback unit and press MARK IN.



Search for the edit end point on the playback unit and press MARK OUT.



(Continued on next page)

Programme Editing Assemble Video Insert Audio Insert AV Insert Audio Dubbing Erase all programmes AV:select , OK:sccess EDIT MENU:return





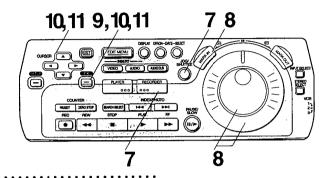
#### Notes:

 Although Assemble editing can be performed in LP mode, Insert, Audio Dubbing, and Audio Mixing cannot be performed with a tape recorded in LP mode. It is necessary to first copy the tape in SP mode.

- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- The editing operation may not be performed correctly if the set duration of a programme is less than 4 seconds.
- On a video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains blank.

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

## Programme Assemble (continued)



7 Press RECORDER and JOG/ SHUTTLE

 The picture from the recording VCR appears on the screen.



Search for the edit start point on the recording VCR and press MARK IN.



9 Press OK



#### To check and change programmes:

- Select Confirm/Change and then press OK.
- To confirm, change, insert or erase editing programmes, see pages 86-87.
- Programmes cannot be inserted or erased through the recording unit.

#### To continue setting programmes:

- 1 Press EDIT MENU.
- 2 Press PLAYER.
- 3 Using ◀ ▶, select the programme number. The programme number changes each time these buttons are pressed. (Up to 40 programmes can be set on one page; if this number is exceeded, the cisplay automatically changes to the next page.)
- 4 Repeat steps 4-6 and 9.

#### On Screen Display





10 Select Start Assemble to start editing, and then press OK.

 Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 After completing editing, select Review, and then press OK.

The edited pictures are played back.



To interrupt editing or Review: Press EDIT MENU.

#### Notes:

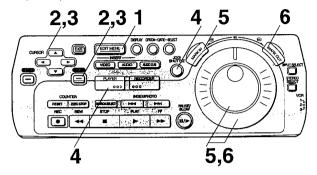
- The Preview function cannot be used with the Assemble function.
- Up to ±1 second of slight deviation in the specified edit start/end position can be corrected. See pages 88-89 for Edit Timing Adjustment.





76

This function is used to replace the picture and sound on a recorded tape.



#### Preparations

- Confirm that the TV is on and the VCR viewing channel is selected.
- · Complete necessary connections and settings. See pages 50-59.

Example: Video Insert

#### Operations

51

Press EDIT MENU.



Select Programme Editing, and then Press OK.





- . Programme Editing can be performed using either the tape counter or Time code display.
- If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display, the Erase all programmes screen is displayed.

(The Erase all programmes screen is also displayed when you change from the tape counter display to the Time code display.)

#### On Screen Display



- · After seting a programme, if you attempt to set another programme in a different editing mode, the set contents for the previous editing mode remain on the setting screen. In order to prevent editing errors, perform the Erase all programmes operation (page 87) whenever you set a programme under a different editing mode.
- · Programme Editing can not be performed with a movie camera that has a 4-digit counter.
- Video Insert and Audio Insert are not possible in the following cases:

When the tape in the recording VCR (the AG-DV2700) is: Recorded in LP mode:

Blank, or contains a blank portion in the middle.

Select the desired editing operation. and then press OK.

To insert picture: Video Insert.

To insert sound: Audio Insert.

To insert picture and sound: AV Insert.



Press PLAYER and JOG/SHUTTLE

•The picture from the playback unit appears on the screen.



Search for the edit start point on the playback unit and press MARK IN.



Search for the edit end point on the playback unit and press MARK OUT.



(Continued on next page)

• AV insert is not possible in the following cases: When the tape in the recording VCR (the AG-DV2700) is:

Recorded in 16bit audio mode; Recorded in LP mode:

Blank, or contains a blank portion in the middle. When INPUT SELECT is set to DV IN.

#### Notes on editing point setting

- The Programme Insert and Audio Dubbing functions require the setting of only three editing points: the in and out points on the playback unit and the in point on the recording unit, or the in point on the playback unit and the in and out points on the recording unit.
- . If both in and out points are set on both the playback unit and the recording unit, and the times between the points do not match, editing stops at the first out point that is reached.

Programme Editing Assemble Video Theory Audio Insert AV Insert Audio Dubbing Erase sil programme: AV Select CRTsdasse

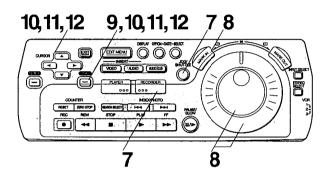




- . In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.
- . The editing operation may not be performed correctly if the set duration of a programme is less than 4 seconds.
- On a video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains blank.

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

## Programme Insert (continued)



7 Press RECORDER and JOG/ SHUTTLE

 The picture from the recording VCR appears on the screen.



Search for the edit start point on the recording VCR and press MARK IN.

9 Press OK

To check and change programmes:

Select Confirm/Change and then press OK.

•To confirm, change, insert or erase editing programmes, see pages 86-87.

#### To continue setting programmes:

- 1 Press EDIT MENU.
- 2 Press PLAYER.

52

- 3 Using ◀ ▶, select the programme number. The programme number changes each time these buttons are pressed. Up to 10 programmes can be set.
- 4 Repeat steps 4-9.







10 Select Preview to confirm the editing operation before performing actual editing, and then press OK.

 Preview begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 Select Start Insert to start editing, and then press OK.

 Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



12 After completing editing, select Review, and then press OK.

The edited pictures are played back.



To interrupt editing, Preview or Review:
Press EDIT MENU.

#### Note:

Up to ±1 second of slight deviation in the specified edit start/end position can be corrected. See pages 88-89 for Edit Timing Adjustment.

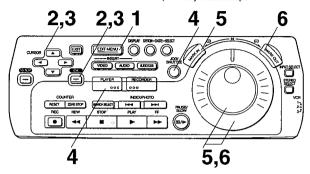






## **Programme Audio Dubbing**

This function is used to add new sound on the STEREO2 track of previously recorded tape.



#### **Preparations**

- . Confirm that the TV is on and the VCR viewing channel is
- · Complete necessary connections and settings. See pages 50-59.

#### Operations

5

Press EDIT MENU.



Select Programme Editing, and then Press OK.



#### Notes:

- Programme Editing can be performed using either the tape counter or Time code display.
- If you attempt to switch to the tape counter display in order to perform editing after setting the editing points using the Time code display the Erase all programmes screen is displayed.

(The Erase all programmes screen is also displayed when you change from the tape counter display to the Time code display.)

· Programme editing can not be performed with a movie camera that has a 4-digit counter.

#### On Screen Display



- · After setting a programme, if you attempt to set another programme in a different editing mode, the set contents for the previous editing mode remain on the setting screen. In order to prevent editing errors, perform the Erase all programmes operation (page 87) whenever you set a programme under a different editing mode.
- · Audio Dubbing is not possible in the following cases: When the tape in the recording VCR (the AG-DV2700) is: Recorded in 16bit audio mode: Recorded in LP mode:

Blank, or contains a blank portion in the middle When INPUT SELECT is set to DV IN.

Select Audio Dubbing, and then press OK.







Press PLAYER and JOG/SHUTTLE

· The picture from the playback unit appears on the screen.





Search for the edit start point on the playback unit and press MARK IN.



Search for the edit end point on the playback unit and press MARK OUT.



(Continued on next page)

#### Notes on editing point setting

- The Programme Insert and Audio Dubbing functions require the setting of only three editing points; the in and out points on the playback unit and the in point on the recording unit, or the in point on the playback unit and the in and out points on the recording unit.
- If both in and out points are set on both the playback unit and the recording unit, and the times between the points do not match, editing stops at the first out point that is reached.
- In order to ensure that the editing operation is performed properly, the editing points should be set at least 20 seconds after the beginning of the tape.



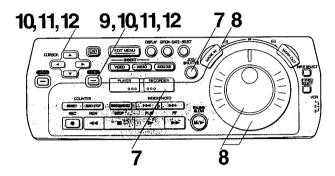




- . The editing operation may not be performed correctly if the set duration of a programme is less than 4 seconds.
- On a video equipment whose Time code display or tape counter display does not show the frame value, the area where the frame value is displayed appears as "00f" or it remains blank.

With some units, the frame value may be displayed when MARK IN or MARK OUT is pressed in steps 5 and 6 even if the unit concerned does not show the frame value.

## Programme Audio Dubbing (continued)



7 Press RECORDER and JOG/ SHUTTLE

 The picture from the recording VCR appears on the screen.



Search for the edit start point on the recording VCR and press MARK IN.



9 Press OK



To check and change programmes:

Select Confirm/Change and then press OK.

•To confirm, change, insert or erase editing programmes, see pages 86-87.

#### To continue setting programmes:

- 1 Press EDIT MENU.
- 2 Press PLAYER.
- 3 Using ◀ ▶, select the programme number. The programme number changes each time these buttons are pressed. Up to 10 programmes can be set.
- 4 Repeat steps 4-9.

#### On Screen Display





10 Select Preview to confirm the editing operation before performing actual editing, and then press OK.

• Preview begins after the playback unit and the

 Preview begins after the playback unit and the recording VCR both rewind their tapes to the edit start points.



11 Select Start Dubbing to start editing, and then press OK.

 Editing begins after the playback unit and the recording VCR both rewind their tapes to the edit start points



12 After completing editing, select Review, and then press OK.

• The edited sounds are played back.



To interrupt editing, Preview or Review: Press EDIT MENU.

## To monitor the edited audio after Audio

Press STEREO SELECT during playback and select STEREO2.

#### Note:

Up to  $\pm 1$  second of slight deviation in the specified edit start/end position can be corrected. See pages 88-89 for Edit Timing Adjustment.

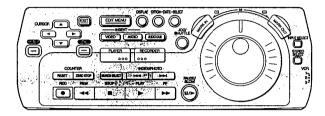






## Other Editing Functions

These functions are used to confirm, change, etc. programmes.



Once all programme settings are completed, the screen shown at right is displayed.

Example: Video Insert

This portion varies, depending on the editing function that was programmed.

To check/change programmes:

1 Select Confirm/Change, and then press OK. The programme list for the playback unit is displayed.

To check the programme list for the recording unit, press RECORDER.

To just confirm the programme settings, press EDIT MENU.

If corrections are needed, continue with the procedure described below.

- 2 Select the programme number for which changes are to be made, and then press OK.
  - •The Programme Change screen for the selected programme number is displayed.
- 3 Press JOG/SHUTTLE.
- 4 Use the Jog Dial/Shuttle Ring to search for the editing point that is to be corrected.
- 5 To change an edit start point, press MARK IN. To change an edit end point, press MARK OUT.
- 6 Once all changes are completed, press OK.
- 7 Press EDIT MENU.

On Screen Display



0 (1 (0)		
Confirm/Change		
PLAYER	[Page1]	
()In	0h06m36s24f	
Out	0h08m55e10f	
(2) in	0h11m23s18f	
Out	0h14m03s18f	
(3)In	0h25m12s09f	
Out	0h27m45s20f	
@In	0h35m17s05f	
Out	0h39m43s11f	
OK: Char	ge at position()	



#### To insert a new programme between existing programmes:

- 1 Select Insert a programme, and then press OK. The programme list is displayed.
- 2 Select the programme number where a programme is to be inserted, and then press OK.
  - The Insert a programme screen is displayed.
- 3 Refer to the pages that describe the Programme Editing functions (on pages 74-85), and set the new programme.
- 4 When setting is complete, press OK.
- 5 Press EDIT MENU.

#### To cancel a programme:

- 1 Select Erase a programme, and then press OK. •The programme list is displayed.
- 2 Select the programme number to be erased, and then press OK.

3 Press EDIT MENU.

#### To cancel all editing programmes:

- 1 Press EDIT MENU twice
- 2 Select Programme Editing, and then press OK.
- 3 Check that Erase all programmes is selected and
  - The Erase all programmes screen is displayed.
- 4 Select YES, and then press OK.
  - •The screen returns to the Programme Editing menu. After the message indicating that "All programmes have been erased." appears on the screen, operation returns to the EDIT MENU screen.
- 5 Press EDIT MENU.

If the EDIT MENU screen is cancelled before the above procedure is performed, the method for displaying the Programme Editing changes.

Press EDIT MENU so that the EDIT MENU screen is displayed. Use to select Programme Editing, and then press OK.

.........

Programmes set in the recording unit for the Assemble editing function cannot be inserted or erased.

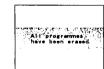
Inse	rt a programme
	[Page1]
()In	0h06m36s24f
Out	0h08m55s10f
201 n	Oh11m23e18f
Out	0h14m03s18f
(3) In	0h25m12e09f
Out	0h27m45s20f
(e)In	0h35m17s05f
Out	0h39m43s11f
OK:ins	ert at position@
LEDIT.M	ENU: return



Eras	e a programme
PLAYER	[Page1]
()In	0h06m36s24f
Out	0h08m55s10f
Ø1n	0h11m23e18f
Out	0h14m03s18f
(3) In	0h25m12±09f
Out	0h27m45s20f
⊕1n	0h35m17s05f
Out	0h39m43s11f
OK: ere	
EDIT N	ENU: return



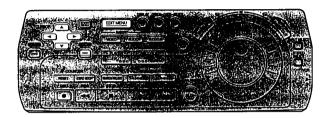




# **Edit Timing Adjustment**

When performing editing in conjunction with a unit which has a different machanism, there may be a lag in the edit start point due to a deviation between the time a pause cancellation signal is received by the recording unit and the time recording

Edit Timing Adjustment is used to compensate the edit start and end time in light of this start-up time deviation.



## Programme Editing

After setting edit start/end points, the actual editing operation may start slightly before or slightly after the position that was set, depending on the equipment that is connected. The procedure described below can adjust the edit timing in order to correct for errors of up to ±1 second in the edit start points and edit end points on the playback

Example: Video Insert

#### Operations

Press EDIT MENU.



Select Programme Editing, and then Press OK.





- The procedure described on these pages is to be performed after exiting the EDIT MENU screen. If this procedure is performed after having executed Start Editing or Review, start this procedure from step 4 on the Video Insert (Assemble, Audio Insert, AV Insert or Audio Dubbing) screen.
- The adjusted frame unit is applied to all of the programmes that have been set at the moment when the adjustment is made.

On Screen Display



Select desired editing operation, and then press OK twice.



Select Timing Adjust, and then press



Adjust the timing for the edit start point by setting the amount of the discrepancy for the start-up time.

• The setting is displayed in frames (1/25 of a second) units.

Press ▶if the start point is too early; press ◀ if it is too late.

 Each time the button is pressed, the tape moves by 1 frame.

• Corrections can be made in the range of ± 30

Press OK.

Adjust the timing for the edit end point in same way.

**①** 

Press OK.



Select Start Insert (Assemble or Dubbing), and then press OK.



• If the results of editing indicate that the adjustment is inadequate, repeat steps 4-8.

Assemble Video Insert Audio Insert AV Insert Audio Dubbing Erase all programmes AV:select , OK:sccess EDIT MENU:return

Confirm/Change Insert a programme Erase a programme Preview Start Insert Review Timing Adjust AV:select , OK:secess EDIT MENU:return

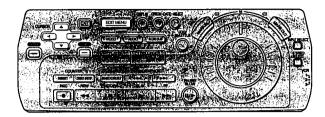






88

## Edit Timing Adjustment (continued)



## Manual Editing

If there is a deviation in the results of a manual editing operation, the timing of the edit start (In) position on the playback unit can be adjusted by approximately ± 1 second. Perform the procedure described below when setting an edit start point in any editing mode.

Example: Manual Copying

#### Operations

57

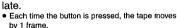
Select Timing Adjust, and then press



Adjust the timing for the edit start point by setting the amount of the

> discrepancy for the start-up time. • The setting is displayed in frames (1/25 of a second) units.

Press ▶if the start point is ▶ too early; press ◀ if it is too



• Corrections can be made in the range of ± 30 frames.

Press OK.

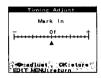




. If the results of editing indicate that the adjustment is inadequate, repeat steps 1-3.

On Screen Display







## On Screen Display Messages

Before requesting service, check the following points once

The error message is indicated in brackets [ ].

These messages are displayed in the language that is set for On Screen Display.

(This action is not possible before time and date are set.) SHOWVIEW or CHECK is pressed when the date and time are not set. Set date and time.

[Please insert video tape!]

# REC (REC/OTR), DIRECT TV REC, ▷ (PLAY), ▶▶ (FAST FORWARD) or ◄◄ (REWIND) is pressed when no cassette is in the VCB. Insert a video

[Recording not allowed.Check setting of the recordprevention tab.)

REC (REC/OTR) or DIRECT TV REC has been pressed when using a cassette with the opened record-prevention tab. Use a cassette with the closed record-prevention tab.

[No timer programmes to be done!]

TIMER REC was pressed even though nothing has been programmed. Programme a timer recording.

[Please put VCR into stop mode first.]

@ Changes to programming details were attempted during timer recording.

#### Messages of On Screen Display for Editing Operations

These messages are displayed in English regardless of the set for On Screen Display.

[Please insert video tape!]

™ REC (REC/OTR), > (PLAY) or JOG/SHUTTLE has been pressed when the editing operation using EDIT MENU screen is performed in the VCR. Insert a video cassette.

[Recording not allowed.Check setting of the recordprevention tab.)

FREC (REC/OTR) has been pressed when using a cassette with the opened record-prevention tab. Use a cassette with a closed record-prevention tab.

[This function cannot be made in the blank part of the tape.] Are you trying to edit using a blank tape, or a tape that contains a blank segment in the middle? Editing is not possible in blank segments (because

there are no Time codes). In order to use such a tape for editing, copy the tape once so that continuous Time codes are recorded on the tape, even if there is nothing else recorded on the tape.

This function is not allowed in LP-recorded section of the

It is not possible to edit a tape that was recorded in LP mode, or that was recorded partly in SP mode and partly in LP mode. Make a copy of the tape in SP mode and then use that tape.

This function cannot be made with 16bit mode audio

Does the audio mode change in the middle of the

The Audio Dubbing and AV Insert functions can only be used on a tape that was recorded in 12bit audio

[Copying of this material is not allowed.]

Tapes which contain copy protection codes cannot be edited, whether in the playback unit or the recording

[EDITING cannot be made. Please check switches setting and cables 1

- Are the necessary cables for controlling the playback unit (Edit cable, LANC cable, DV cable) connected?
- Is the playback unit turned off?
- Are EDIT MODE, EDIT CONTROL, and the INPUT SELECT setting on the AG-DV2700 set properly for the desired editing operation?
- r Is there more than one digital video device (including personal computers) connected to the AG-DV2700?
- Are the AG-DV2700 and the unit connected to the AG-DV2700 both set to control each other (if the connected unit is a digital video device)?

[Audio Dubbing or Audio Mixing cannot be made with DV

work if INPUT SELECT is set to DV IN. Set to A2 or

[AV Insert cannot be made with DV input mode.]

AV Insert will not work if INPUT SELECT is set to DV IN. Set to A2 or A3.

(Please select DV input mode.)

■ Is EDIT CONTROL set to DV. but INPUT SELECT is set to something other than DV IN?

[This tape is an incorrect type. Please replace the tape.]

A video cassette tape other than a DV or MINI DV cassette has been inserted.

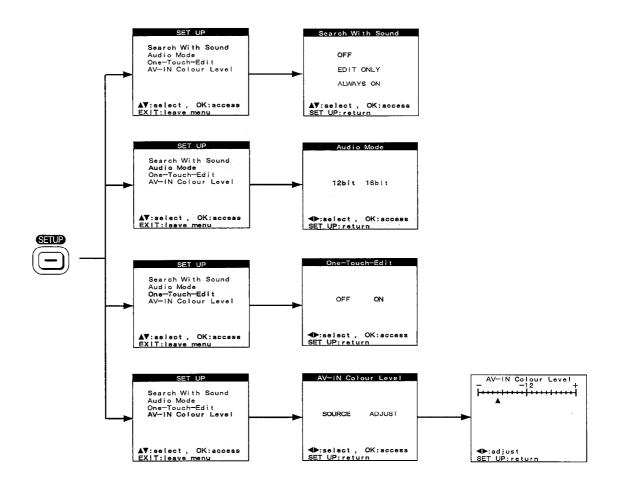
DVCPRO cassettes cannot be used with the AG-

Other messages may also appear. Follow the instructions in the message.

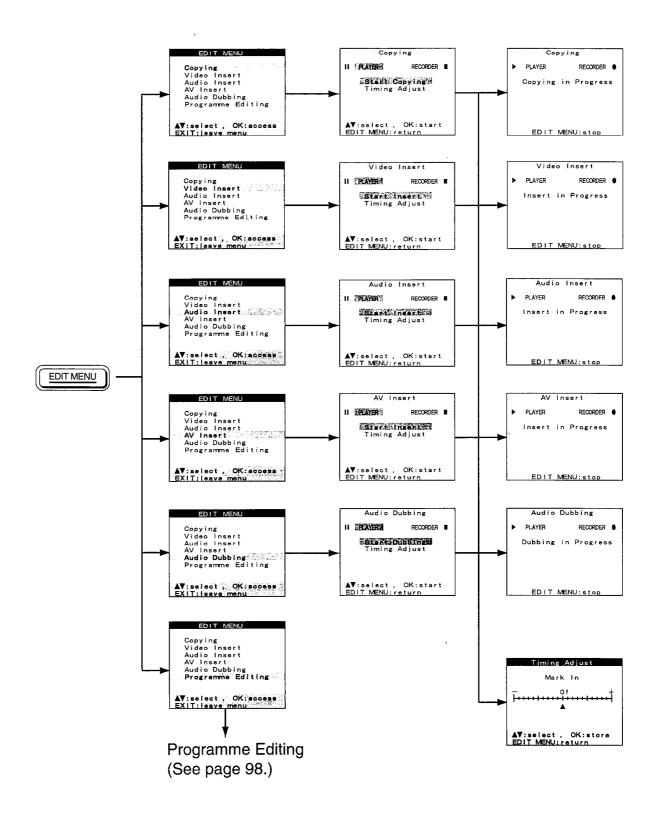


# Flow Chart for On Screen Displays

## SET UP On Screen Display



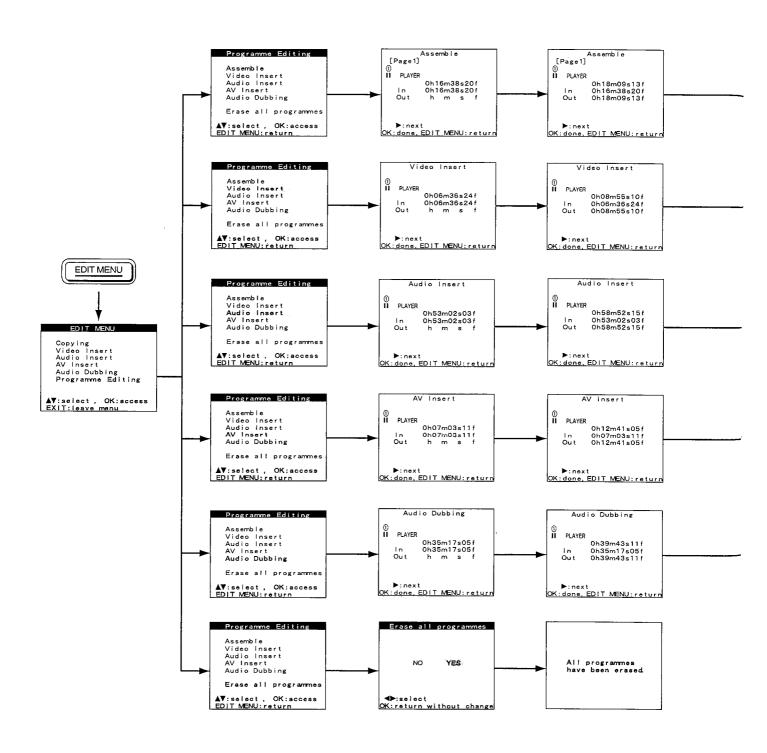
## EDIT MENU On Screen Display (Manual Editing)

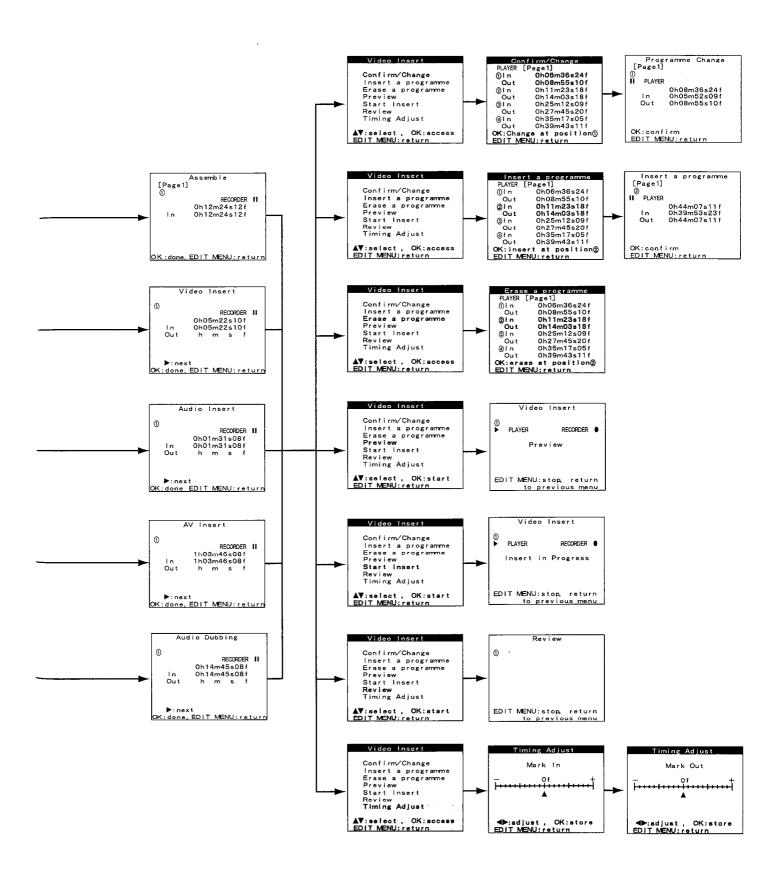




# Flow Chart for On Screen Displays (continued)

Programme Editing On Screen Display





## Memo

# SECTION 2 ADJUSTMENT PROCEDURES

## 1. Disassembly/Assembly Procedures for cabinet parts, C.B.A. and Mechanism Unit

### 1-1. Disassemble Flow Chart for cabinet parts, C.B.A. and Mechanism Unit.

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mechanism Unit in order to access to items to be serviced. When reinstalling, perform the steps in reverse order.

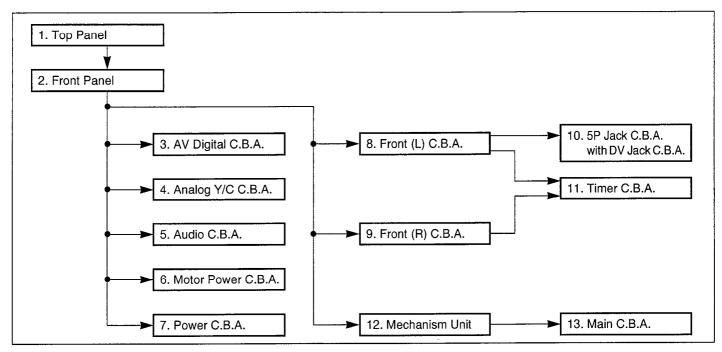


Fig. 1-1 Flow Chart

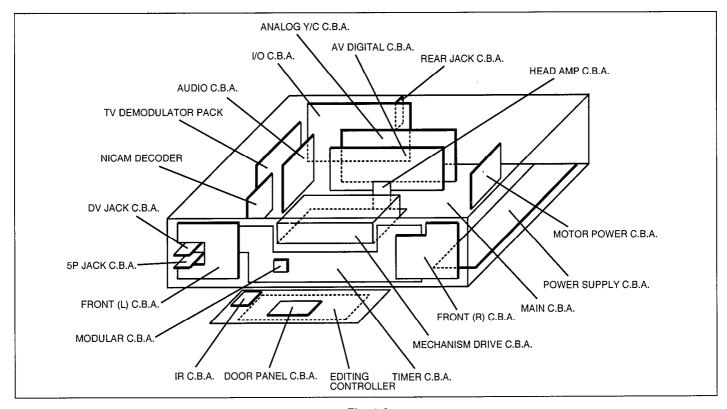


Fig. 1-2

# 1-2. Disassembly/Assembly Procedures (for cabinet parts, C.B.A. and Mechanism Unit)

No.	ITEM / PART	FIG.	REMOVAL (SCREW)
1	Top Panel	Fig. D-1	4-Screws (A) 1-Screw (B) Remove Side Plate (6 Hooks).
2	Front Panel	Fig. D-2	1-Connector (P3701) 9-Locking Tabs (a)
		Fig. D-3	When Front Panel is installed, confirm the Connector P7504.
3	AV Digital C.B.A.	Fig. D-6	2-Screws (D) 2-Connectors (FP3201, P3701)
		Fig. D-5	Note 1: When the EVR Connection C.B.A. is installed, confirm the arrow direction on C.B.A
4	Analog Y/C C.B.A.	Fig. D-6	2-Screws (E)
5	Audio C.B.A.	Fig. D-6	Note 2: 2-Locking Tabs (b)
6	Motor Power C.B.A.	Fig. D-6	1-Connector (P2502) Note 2: 2-Locking Tabs (c)
7	Power C.B.A.	Fig. D-6	1-Connector (P1102) 7-Locking Tabs (d)
8	Front (L) C.B.A.	Fig. D-3	1-Connector (P4851) 2-Locking Tabs (e)
9	Front (R) C.B.A.	Fig. D-3	1-Screw (F) 1-Connector (P4801) 2-Locking Tabs (f)
10	5P Jack C.B.A. & DV Jack C.B.A.	Fig. D-5	1-Screw (G) 2-Connectors (P3781, P7651) 1-Locking Tab (g)
11	Timer C.B.A.	Fig. D-4	3-Connectors (P7501, P7502, P7503) 6-Locking Tabs (h)
12	Mechanism Unit	Fig. D-5	Remove the Tray Angle. Set the Mechnism to the "Eject" position. 4-Connectors (P2705, FP5002, P6504, P6505) 3-Screws (H)
13	Main C.B.A.	Fig. D-6	4-Screws (D/E) 2-Screws (I) 4-Screws (J) 7-Locking Tabs (i)

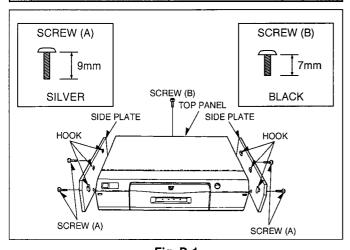


Fig. D-1

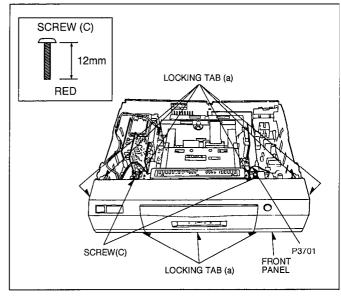


Fig. D-2

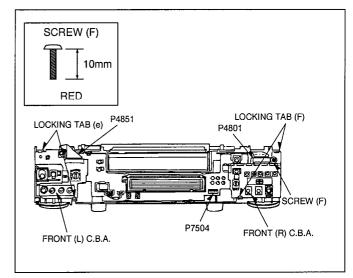


Fig. D-3

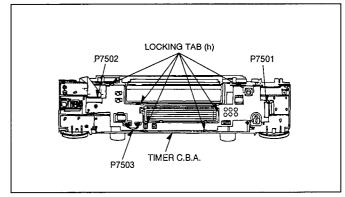


Fig. D-4

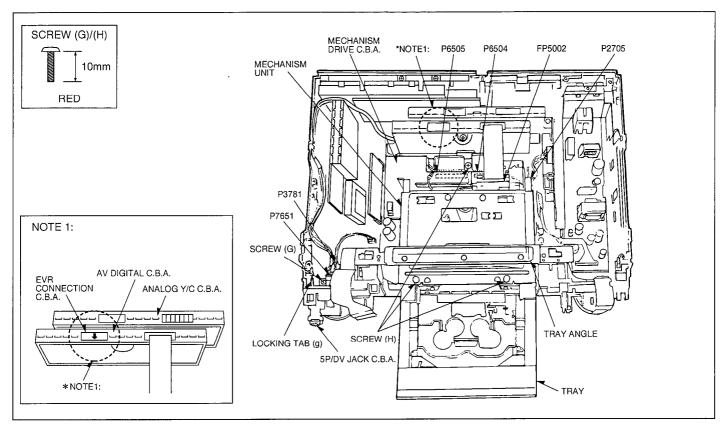


Fig. D-5

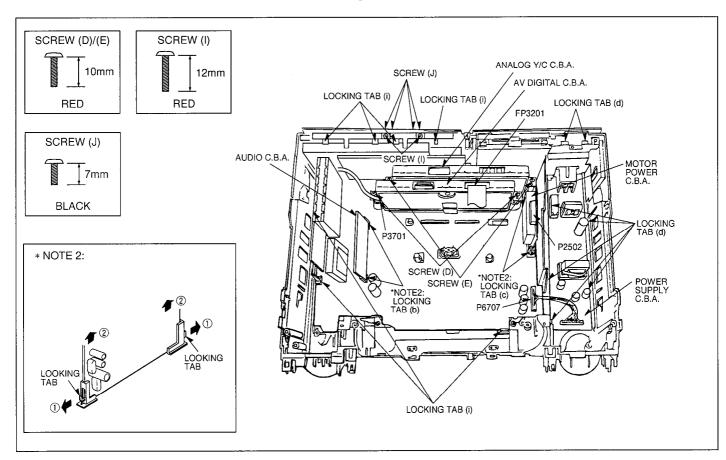


Fig. D-6

## 2. Disassembly/Assembly Procedures for Mechanism

## 2-1. Disassemble Flow Chart for Mechanism

This procedure starts with the condition that the mechanism unit has been removed from the unit.

The following chart indicates disassembly steps of the mechanical parts in order to gain access to part for servicing. When reinstalling, perform the steps in reverse order.

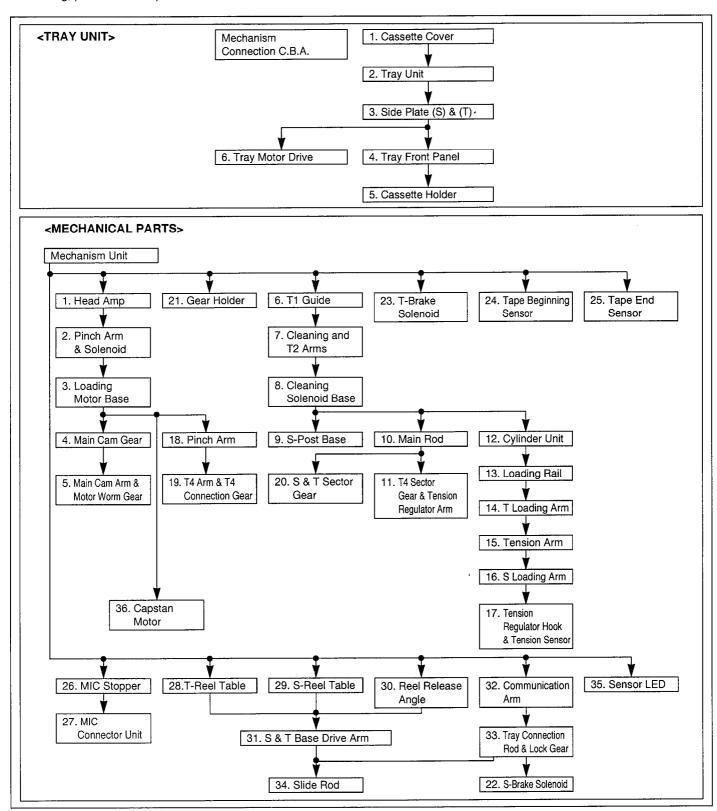


Fig. 2-1 Flow Chart

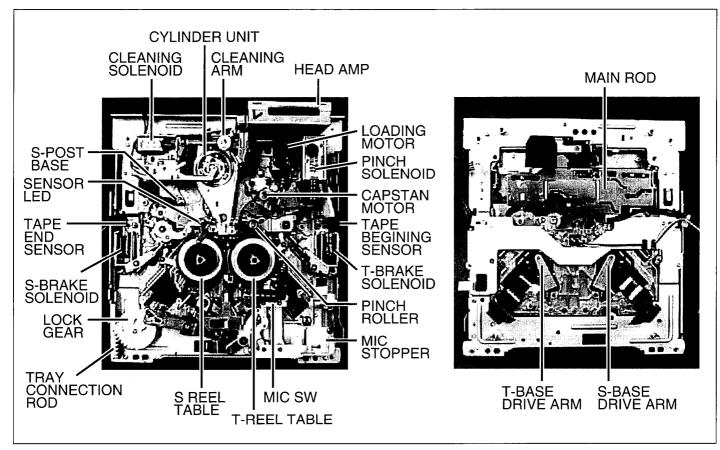


Fig. 2-2

### 2-2. Disassembly/Assembly Procedures (for Mechanical Parts)

### 1. Mechanism Connection C.B.A.

Unscrew 4 screws and disconnect following connectors.

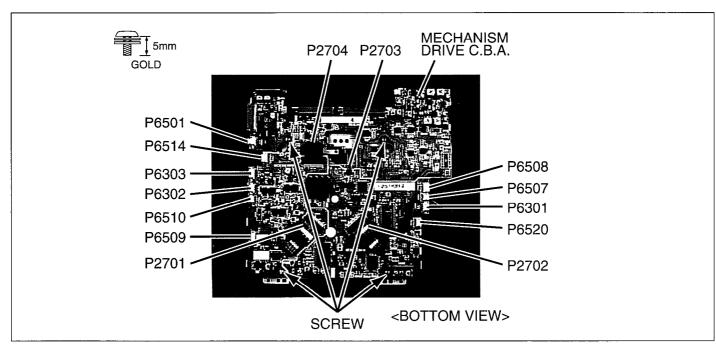


Fig. 2-3

### 2. Tray Unit

### 2-1. Cassette Cover

Fig. T-1 Set the Mechanism to Tray open position.

Unscrew 2 screws (A), then slide the Cassette Cover and unhook the hooking portion.

Fig. T-2 When the Tray can not be opened normally, slowly turn the Tray Drive Shaft until the Tray is fully opened

### 2-2. Tray Unit

Fig. T-3 Unscrew 4 screws (B) and disconnect P6502 when Mechanism Drive C.B.A. is connected to Mechanism

Fig. T-4 Since the Side Plate (S) is located underneath the Tray Connection Rod, then shift the Side Plate (S) in the front direction and lift it up.

### Note of installation

Fig. T-5

Push the Tray Connection Rod in the rear direction and install the Tray Unit so that the Reel Shaft on the Side Plate (S) meets the groove on the Tray Connection Rod.

### 2-3. Side Plate (S) and (T)

Fig. T-6 Set the Pinion Gear so that the projection (A) is aligned to the Dot Mark on the Rack (S) and (T) and remove the Side Plate (S) and (T).

### Note of installation

Fig. T-10 Confirm the position of the Cassette Change Lever. (Down position)

Fig. T-7 Install the Pinion Gear so that the projection (B) on the pinion Gear is aligned to the hole on the Tray Drive Shaft Gear.

Fig. T-6 Install the Side Plate (S) and (T) so that the projection (A) is aligned to the dot mark on the Rack (S) and (T).

### 2-4. Tray Front Panel

Fig. T-8 Unscrew 2 screws (C) and unlock 4 locking tabs (A), then remove the Tray Front Panel.

### 2-5. Cassette Holder

Fig. T-9 Slightly open the S and T Rack Unit and slowly remove the Cassette Holder from the Groove on the S and T Rack Unit.

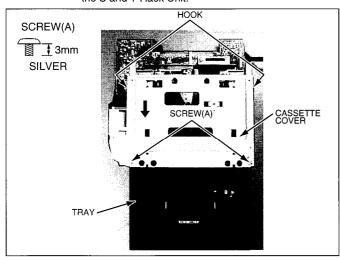


Fig. T-1

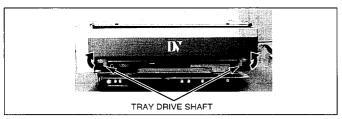


Fig. T-2

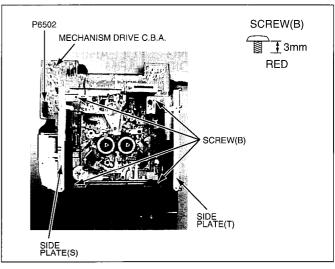


Fig. T-3

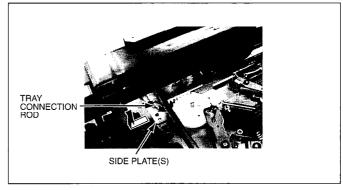


Fig. T-4

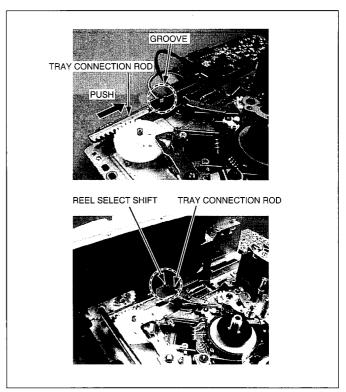


Fig. T-5

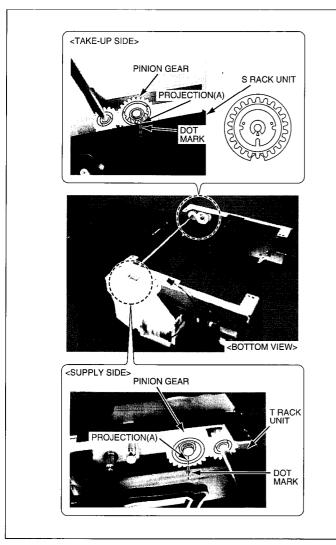


Fig. T-6

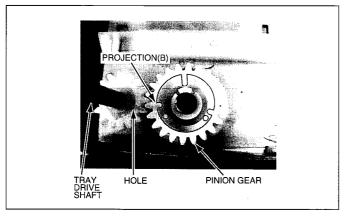


Fig. T-7

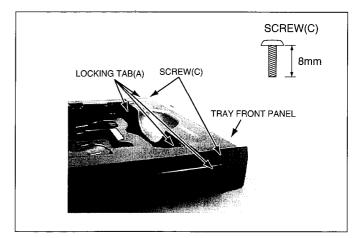


Fig. T-8

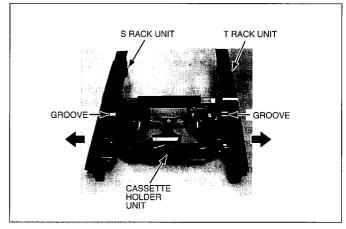


Fig. T-9

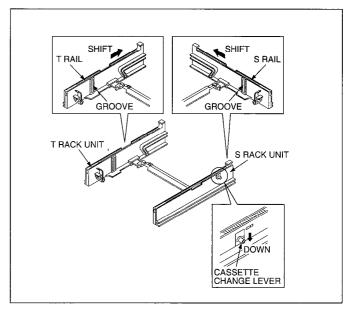


Fig. T-10

### Note of installation

Fig. T-10 Shift the S and T Rail on the S and T Rack Unit to makethe Tray down condition.

Fig. T-11 Install the Cassette Holder Unit so that the projection (C) on the Cassette Holder meets the groove on the S and T Rack unit.

### 2-6. Tray Motor Drive Unit

Fig. T-12 Unlock 3 locking tabs (B) and remove the Tray Motor Drive Unit.

Fig. T-13 Remove the Syncro. Drive Gear, Worm Foil Gear, Worm Gear and Tray Motor.

### 3. Mechanical Parts

### 3-1. Head AMP

Fig. M-1 Unscrew 2 screws (E).

Fig. M-2 Slide the Shield Case in up direction and remove the Shield Case.

Disconnect FP5001.

### 3-2. Pinch Solenoid and Pinch Arm

Fig. M-3 Unscrew 2 screws (F) and remove Cut Washer.
Shift the Pinch Solenoid in left direction and remove the Pinch Solenoid and Pinch Arm.

### 3-3. Loading Motor Base

Fig. M-4 Unscrew 5 screws (G) and (H) and remove the Loading Motor Base.

### Note of installation

Fig. M-7 Set the Motor Worm Gear to the Loading Motor Shaft.

Fig. M-5 Install the Loading Motor Base so that the projection (D)on the Mode SW meets the Hole on the Main Cam Gear.

### 3-4. Main Cam Gear

Fig. M-6 Remove the Main Cam Gear.

### 3-5. Main Cam Arm and Motor Worm Gear

Fig. M-7 Remove the Main Cam Arm and Motor Worm Gear.

### Note of installation

Fig. M-8 Install the Main Cam Arm so that the projection (E) on the Main Cam Arm meets the hole on the Main Rod.

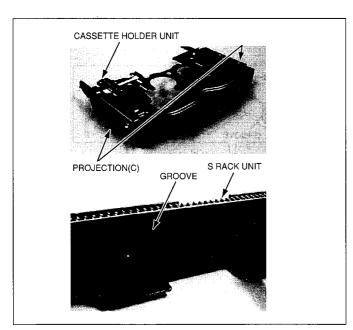


Fig. T-11

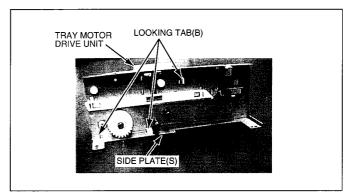


Fig. T-12

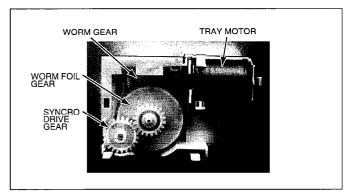


Fig. T-13

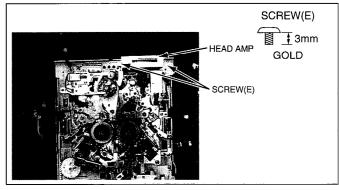


Fig. M-1

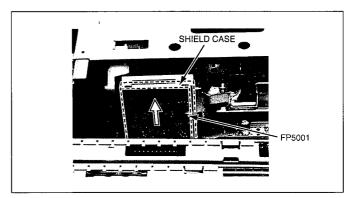


Fig. M-2

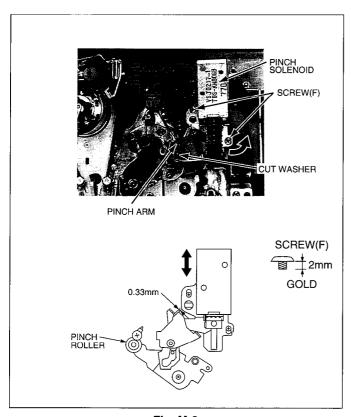


Fig. M-3

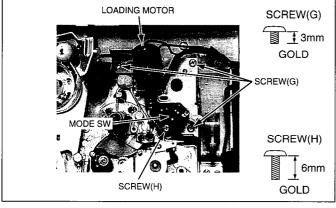


Fig. M-4

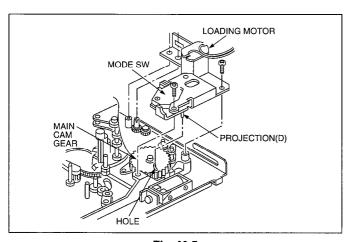


Fig. M-5

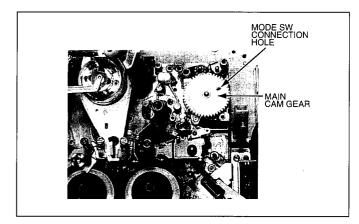


Fig. M-6

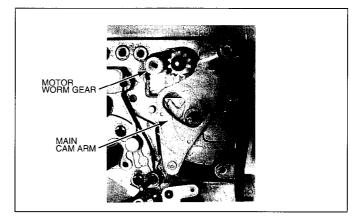


Fig. M-7

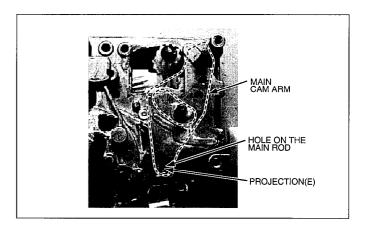


Fig. M-8

#### 3-6. T1 Guide

Fig. M-9 Unscrew 2 screws (I) and remove the T1 Guide.

### 3-7. Cleaning Arm and T2 Arm

Fig. M-10 Unhook the Cleaning Spring.

Unlock the locking portion of the Cleaning Arm.

Remove the T2 Arm with Spring.

### 3-8. Cleaning Solenoid Base and Cleaning Solenoid

Fig. M-11 Unscrew 3 screws (J) and remove the Cleaning Solenoid Base.

Fig. M-12 Unscrew 2 screws (K) and remove the Cleaning Solenoid.

#### Note of installation

Fig. M-10 Adjust the Cleaning Solenoid Base so that the gap between the Cylinder and Cleaning Arm becomes 1.0mm +/- 0.1mm.

Confirm that the Cleaning Roller rotates when the Cleaning Solenoid is turned on in the play mode.

### 3-9. S-Post Base

Fig. M-13 Unscrew 1 screw (L) and remove the S-Post Base.

### 3-10. Main Rod

Fig. M-14 Slide the Main Rod and remove it.

When the Cleaning Solenoid Base is not removed; Slightly shift the Cleaning Solenoid Base in direction and slide the Main Rod since the Main Rod is stopped by Cleaning Solenoid Base.

### Note of installation

Fig. M-15 Install the Main Rod so that the each drive shaft meets the groove of the Main Rod. To lock the Main Rod, slide it in left direction.

### 3-11. T4 Sector Gear and Tension Regulator Arm

Fig. M-16 Remove the T4 Sector Gear and Tension Regulator Arm.

### Note of installation

Fig. M-17 Install the T4 Sector Gear so that the alignment hole of the T4 Sector Gear is aligned to the alignment gear of the T4 Arm.

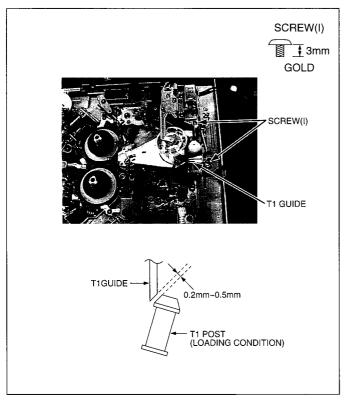


Fig. M-9

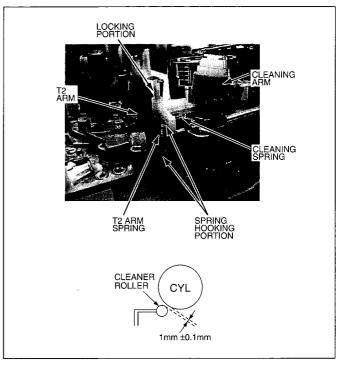


Fig. M-10

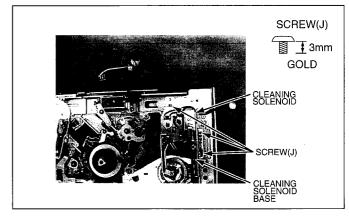


Fig. M-11

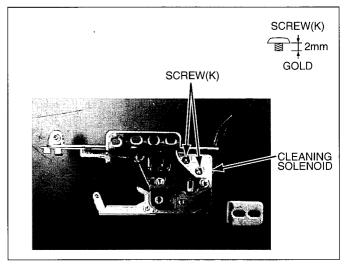


Fig. M-12

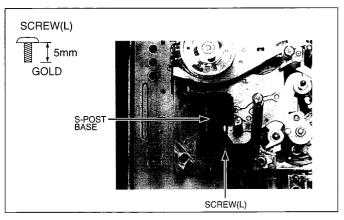


Fig. M-13

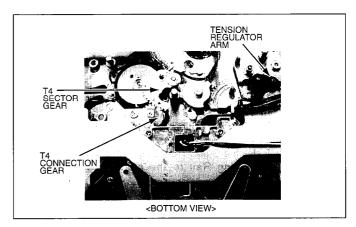


Fig. M-16

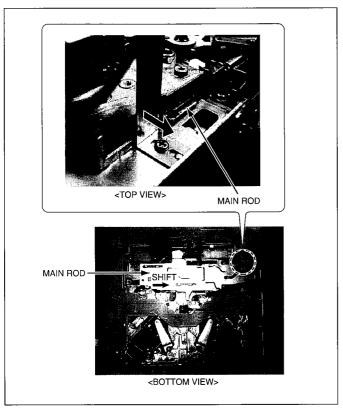


Fig. M-14

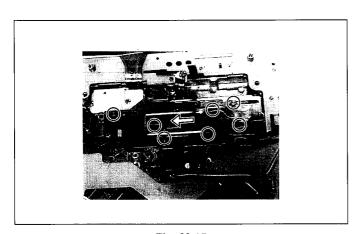


Fig. M-15

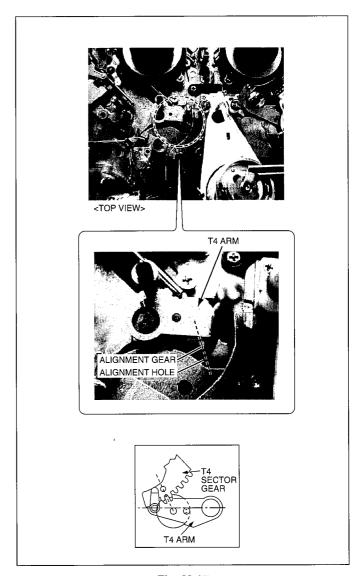


Fig. M-17

#### 3-12. Cylinder Unit

Fig. M-18 Unscrew 4 screws (M) and (N). Then remove the Cylinder Unit carefully.

Fig. M-19 When removing or installing the Cylinder Unit, use extreme care so as not to damage the flexible cable.

### 3-13. Loading Rail

Fig. M-20 Unscrew 2 screws (O) and (P). Then slightly lift up the Loading Rail and slowly remove the S and T Loading Posts from the top side of the Loading Rail.

#### Note of installation

Fig. M-20 Install the S and T Loading Posts to the Loading Rail and set the Loading Rail to the chassis. Then install 2 screws (O) and (P).

### 3-14. T Loading Arm (Post)

Fig. M-21 Remove the E-Ring, washer and T Loading Arm.

When replacing the T Loading Arm, perform the "Mechanical Adjustment Procedures".

### Note of installation

Fig. M-21 Install the T Loading Arm so that the hole on the gear of the T Loading Arm is aligned to the hole on the T Sector Gear.

#### 3-15. Tension Arm

Fig. M-22 Remove the cut washer and unhook the spring, then remove the Tension Arm.

When replacing the Tension Arm, perform the "Mechanical Adjustment Procedures".

### 3-16. S Loading Arm (Post)

Fig. M-23 Remove the E-Ring, washer and S Loading Arm. When replacing the S Loading Arm, perform the "Mechnical Adjustment Procedures".

#### Note of installation

Fig. M-23 Install the S Loading Arm so that the hole on the gear of the S Loading Arm is aligned to the hole on the S Sector Gear.

### 3-17. Tension Regulator Hook and Tension Sensor

Fig. M-24 Unscrew 1 screw (Q) located under the S Brake Solenoid, washer and Tension Sensor.

Remove the cut washer and Tension Regulator Hook.

When replacing the Tension Sensor, perform the "Mechanical Adjustment Procedures".

### Note of installation

Fig. M-25 After installed Tension Sensor, confirm the position of the Tension Sensor cable.

### 3-18. Pinch Arm

Fig. M-26 Remove the cut washer and Pinch Arm with spring.

### Note of installation

Fig. M-26 Confirm the hooking portion of the spring.

### 3-19. T4 Arm and T4 Connection Gear

Fig. M-27 Remove the Nylon Nut using tweezers or box driver (2.5mm).

Remove the washer, spring and T4 Arm.

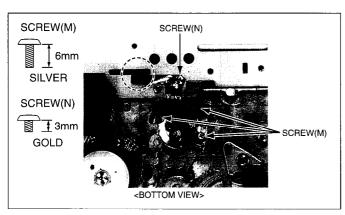


Fig. M-18

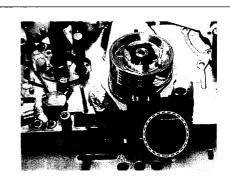


Fig. M-19

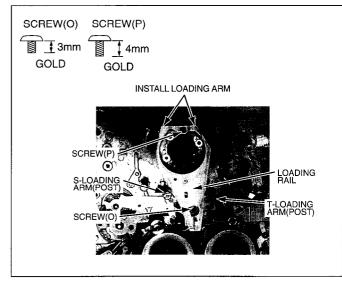


Fig. M-20

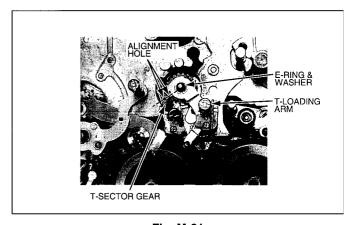


Fig. M-21

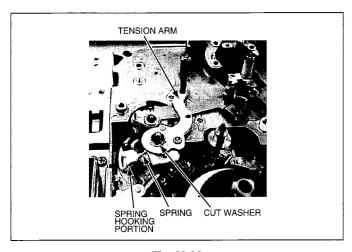


Fig. M-22

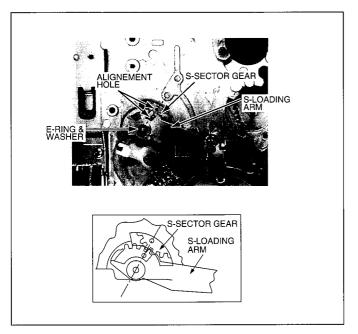


Fig. M-23

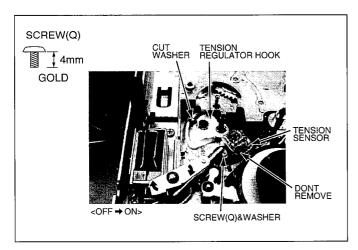


Fig. M-24

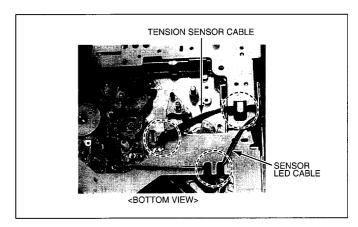


Fig. M-25

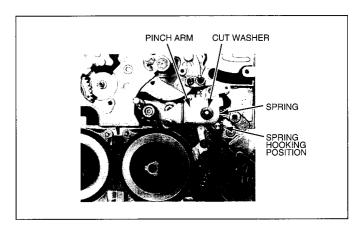


Fig. M-26

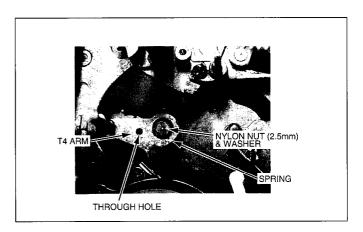


Fig. M-27

Fig. M-28 Remove the cut washer and T4 Connection Gear.

When replacing the T4 Arm and/or T4 Connection " Mechanical Adjustment Gear,perform the Procedures".

### Note of installation

Fig. M-28 Install the T4 Connection Gear and cut washer.

Fig. M-27 Install the T4 Arm so that the through hole on the T4 Arm is aligned to the alignment hole on the T4 Connection Gear as shown in Fig. M-28.

### 3-20. S and T Sector Gear

Fig. M-29 Turn the S and T Sector Gears to clockwise and remove these Gears.

### 3-21. Gear Holder

Fig. M-30 Unscrew 2 screws (R) and remove the Gear Holder.

### Note of installation

Fig. M-30 When installing the Gear Holder, confirm the position of the flexible cable of the Capstan Motor.

### 3-22. S-Brake Solenoid

Unscrew 2 screws (S) Fig. M-31

When removing the S-Brake Solenoid, the Tray Connection Rod must be removed because of the connector of the Solenoid is located between the Chassis and Tray Connection Rod.

### Note of installation

Fig. M33 Adjust the S-Brake Solenoid so that the gap between theS-Brake and S-Reel Table becomes 0.2 to 0.5 mm (just release).

### 3-23. T-Brake Solenoid

Fig. M-32 Unscrew 2 screws (T) and remove the T-Brake Solenoid.

#### Note of installation

Fig. M33 Adjust the T-Brake Solenoid so that the gap between the T-Brake and T-Reel Table becomes 0.2 to 0.5 mm (just release).

### 3-24. Tape Beginning Sensor (T Sensor)

Fig. M-34 Unlock the locking portion and remove the Tape Beginning Sensor.

### 3-25. Tape End Sensor (S Sensor)

Fig. M-35 Unlock the locking portion and remove the Tape End Sensor.

### 3-26. MIC Stopper

Unscrew 2 screws (U) and remove the MIC Stopper. Fig. M-36

### 3-27. MIC Connector Unit

Fig. M-37 Unscrew 1 screw (V) and remove the cut washer and MIC Connector Unit.

### Note of installation

Fig. M-37 Install the MIC Connector Unit so that the projection (F) meets the hole on the MIC Connector Unit.

### 3-28. T Reel Table

Fig. M-38 Unscrew 4 screws (W) and remove the T Reel Table with 2 shifts.

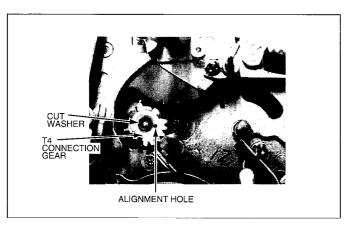


Fig. M-28

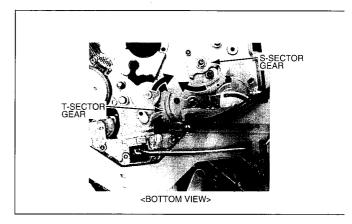


Fig. M-29

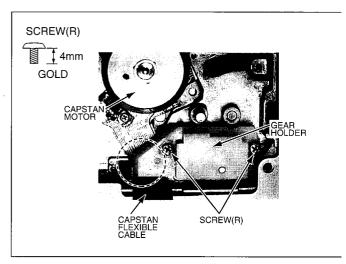


Fig. M-30

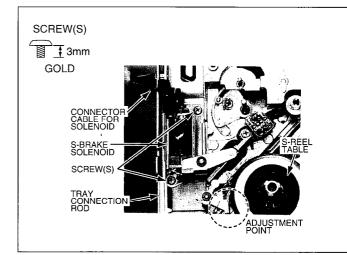


Fig. M-31

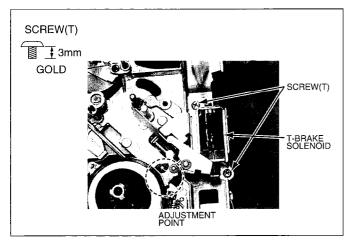


Fig. M-32

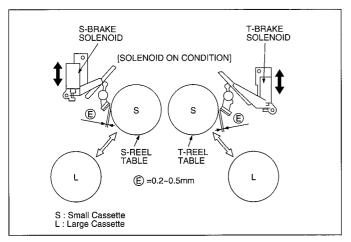


Fig. M-33

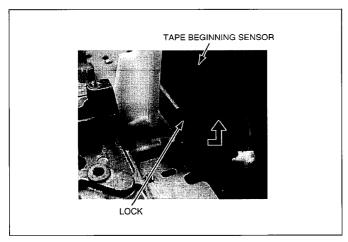


Fig. M-34

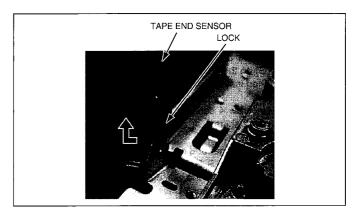


Fig. M-35

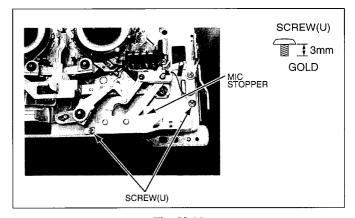


Fig. M-36

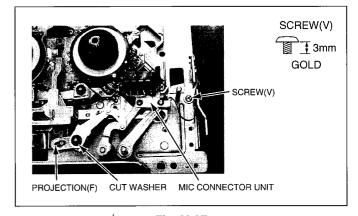


Fig. M-37

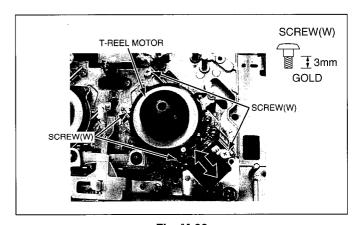


Fig. M-38

#### Note of installation

Fig. M-40 Set the inner and outer shafts to the T Reel Table.

Fig. M-41/42 Install the T Reel Table with 2 shafts so that the groove under the T Reel Table meets the projection (G) on the T Base Drive Arm.

Then install 4 screws (W).

### 3-29. S Reel Table

Fig. M-39 Unscrew 4 screws (X) and remove the S Reel Table with 2 shifts.

#### Note of installation

Fig. M-40 Set the inner and outer shafts to the S Reel Table.

Fig. M-41/42 Install the S Reel Table with 2 shafts so that the groove under the S Reel Table meets the projection (G) on the S Base Drive Arm.

Then install 4 screws (X).

### 3-30. Reel Release Angle

Fig. M-42 Unscrew 2 screws (Y) and remove the Reel Release Angle.

### 3-31. S and T Base Drive Arm

Fig. M-43 Remove the cut washer, S and T Base Drive Arms.

### Note of installation

Fig. M-43 Install the S and T Base Arms so that the projections (H) on the S and T Base Arms meet the groove on the Slide Rod.

### 3-32. Communication Arm

Fig. M-44 Remove the cut washer and Communication Arm.

### 3-33. Tray Connection Rod and Lock Gear

Fig. M-45 Pull the Tray Connection Rod in front direction to release the lock and remove it.

Remove the Lock Gear.

### Note of installation

Fig. M-46 Install the Tray Connection Rod.

Then install the Lock Gear so that the hole on the Lock Gear is aligned to the hole on the Tray Connection Rod.

### 3-34. Slide Rod

Fig. M-47 Remove the cut washer and Slide Rod.

### 3-35. Sensor LED

Fig. M-48 Unscrew 1 screw (Z) and Sensor LED.

### Note of installation

Fig. M-25 After installed Sensor LED, confirm the position of the Sensor LED cable.

### 3-36. Capstan Motor

Fig. M-49 Unscrew 3 screws (a) and Capstan Motor.

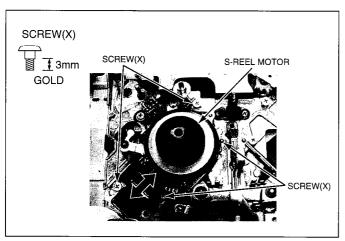


Fig. M-39

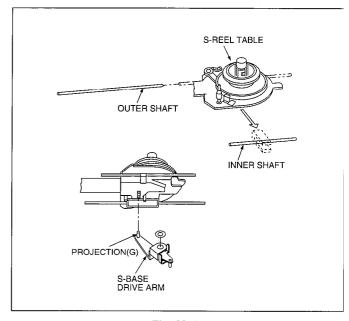


Fig. M-40

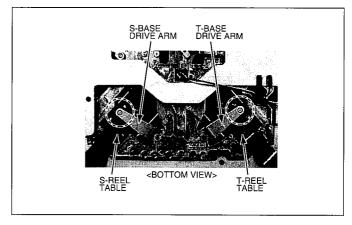


Fig. M-41

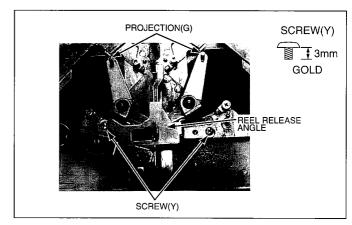


Fig. M-42

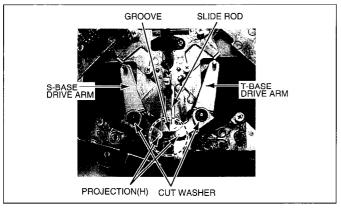


Fig. M-43

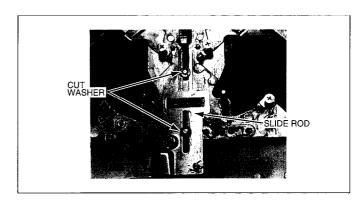


Fig. M-47

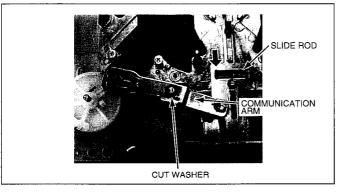


Fig. M-44

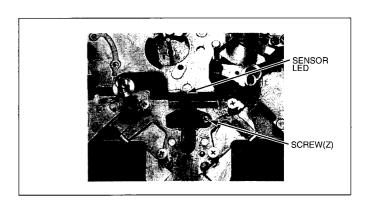


Fig. M-48

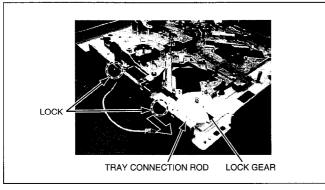


Fig. M-45

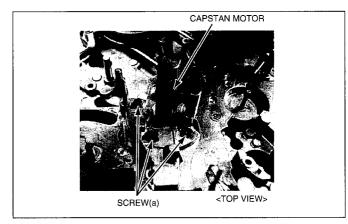
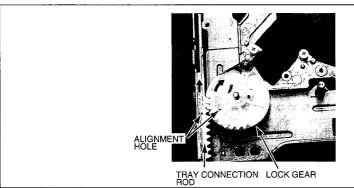
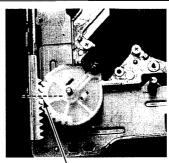


Fig. M-49





PHASE ADJ

Fig. M-46

### 4. Mechanical adjustment

### 4-1. Name of Tape Transportation

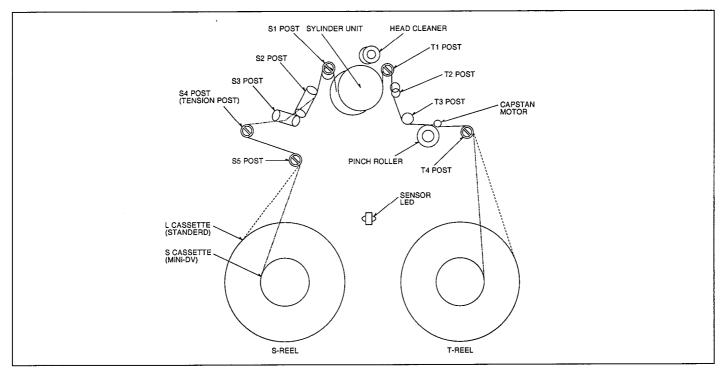


Fig. M-1

### 4-2. Cleaning Procedures

Make sure the power is off before cleaning. Use ethanol (more than 99% purity) as cleaning liquid.

### 4-2-1. Cleaning of Video Head

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.

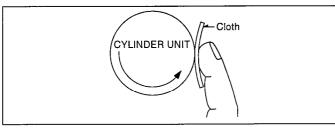


Fig. M-2

### 4-2-2. Cleaning of Drum Lead

Be careful not to touch a head chip. Clean the drum lead with a pick.

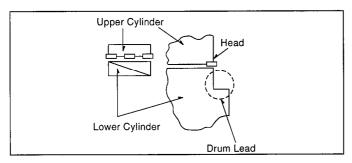


Fig. M-3

### 4-2-3. Cleaning of Pinch Roller and Capstan

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.

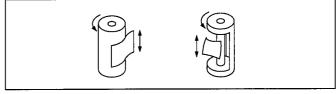


Fig. M-4

### 4-2-4. Cleaning of each Post

Wind a cloth on a pick. Wipe each post dry with that pick. Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.

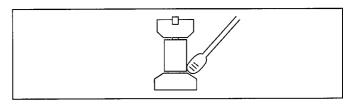


Fig. M-5

### 4-3. Reel Offset and Tension Arm Adjustment

Note:

Before beginning adjustment from the item 4-4., the "Reel Offset" and "Tension Arm Adjustment" described on the "5. Electrical Adjustment" must be done as shown in Fig. E-1.

### 4-4. T4, S4 and S5 Post Height Pre-Adjustment

Note:

Before this adjustment, the Servo Adjustment must be done. (Refer to "5. Electrical Adjustment".)

- Confirm the Reel Table is located at L (Standard) cassette position.
   If it is located at S (Mini-DV) cassette position, turn power on and insert L cassette and eject the L cassette.
- Turn power off. Remove the Front Loading Unit. Then place the Mech. Plate (VFK1348A) on the Reel Table.
- Place the Post Height Adj. Tool (VFK1450) on the Mech. Plate as shown in Fig. M-6 and adjust the T4 post height by using the Box Driver (VFK1151).
- 4. Adjust the S4 and S5 post height by using the Post Driver (VFK1278).
- 5. Then turn S4 and S5 posts 1 round counterclockwise from lower limit position.

T4 Post : Lower Limit ( -0.5 +/- 0.05 mm) S4 Post : Lower Limit ( +0.2 +/- 0.05 mm) S5 Post : Lower Limit ( +0.2 +/- 0.05 mm)

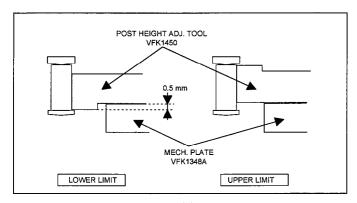


Fig. M-6

### 4-5. Tape Pass Adjustment Procedures

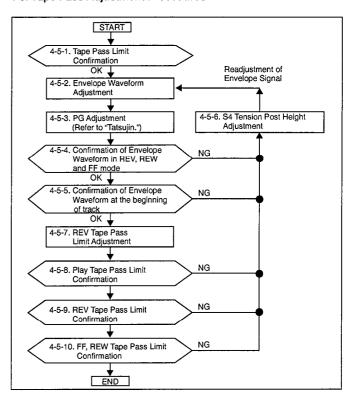


Fig. M-7

- 4-5-1. Tape Pass Limit Confirmation
  1. Place unit into Play mode, and adjust the height of each post do not to occurred tape damage.
  2. Regarding the S1 Post and T1 Post, refer to item "4-5-2. Envelope Waveform Adjustment".
  3. Confirm the tape pass limit of each post as shown in Fig. M-8.

POST NAME				APE LIM			······	ADJUSTMENT	TAPE PASS LIMIT
	Α	В	С	D	E	F	G	PORTION	
4-5-1. Play Tape Pass Lim	it Confirm	ation							
S5 Post	×	×	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	×	×	0	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	×	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	×	0	×	×	×	×	×	T1 Post	Envelope Adjustment
T4 Post	×	×	0	×	×	×	×	T4 Post Arm Nut	Free Limit
4-5-7. REV Tape Pass Lim	it Adjustm	ent				-			
S5 Post	×	0	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	×	0	0	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	×	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	×	0	0	0	×	×	×	T1 Post	Envelope Adjustment
T4 Post	×	×	0	×	×	×	×	T4 Post Arm Nut	Free Limit
4-5-8. Play Tape Pass Lim	il Confirm	ation		1	-				
S5 Post	X	×	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	×	×	ŏ	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	$\frac{1}{\times}$	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	$\frac{1}{\times}$	0	×	×	X	×	×	T1 Post	Envelope Adjustment
T4 Post	X	×	×	0	×	×	×	T4 Post Arm Nut	Free Limit
		<u> </u>	<u> </u>		1 ^		<u> </u>	1771 0017 11111101	1.00
4-5-9. REV Tape Pass Lim					×	×	×	S5 Post	Lower Limit
S5 Post	×	0	0	0	×	×	×	S4 (Tension) Post	Lower Limit
S4 (Tension) Post	×	0						S1 Post	Envelope Adjustment
S1 Post	×	0	×	×	×	×	×	T1 Post	Envelope Adjustment
T1 Post	×	0	0	0	×	×	×	T4 Post Arm Nut	Free Limit
T4 Post	×	0			^	_ ^_	<u> </u>	14 POST AIII NUL	1 Tee Littit
4-5-10. FF / REW Tape Pa			_		T		I	los p	1 1 1
S5 Post	×	0	0	0	×	×	×	S5 Post	Lower Limit
S4 (Tension) Post	×	X	0	0	×	×	×	S4 (Tension) Post	Lower Limit
S1 Post	×	0	×	×	×	×	×	S1 Post	Envelope Adjustment
T1 Post	×	0	0	0	×	×	×	T1 Post	Envelope Adjustment
T4 Post	×	0	0	0	×	×	×	T4 Post Arm Nut	Free Limit
	O: ×:		acceptat						
A : Curl	B: Upper		C : Fre	ee e	D: Lo	wer		Curl F: Bend	G : Drop
					· · · · · ·		_		

Fig. M-8

### 4-5-2. Envelope Waveform Adjustment

<Pre-Adjustment>

- 1. Hook up the PC EVR System as shown in Fig. 2-7 (Section 1). Then starts the RF / VITERBI Adjustment in the Video Section.
- Connect the oscilloscope to "Envelope" and "GND" on the Measuring TP Board (VFK1409). Then playback the Alignment Tape (VFM3110EDS) and adjust S1 and T1 posts so that the envelope output is within following specification (Fig. M-9). Use "HID1" as a trigger.
  - When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.
- Adjust T1 post and makes exit side of the envelope flat then adjust S1 post.

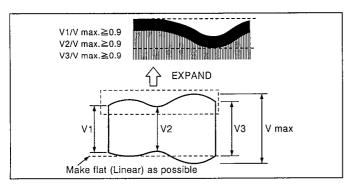


Fig. M-9

<Fine Adjustment>

- Playback the self recorded tape and readjust S1 and T1 posts so that the BER counter number becomes the minimum.
- After adjustment, unload the tape then loading the tape. Then confirm the waveform style and BER counter number is minimized.

### 4-5-3. PG Adjustment

Since the adjustment procedure for "PG Adjustment" is supported only "PC EVR System", refer to "PC EVR" software.

# 4-5-4. Confirmation of Envelope Waveform in REV, REW and FF mode

- 1. Hook up the PC EVR System as shown in Fig. 2-7 (Section 1).
- Connect the oscilloscope to "Envelope" and "GND" on the Measuring TP Board (VFK1409).
- Confirm the Envelope Waveform signal is in the specification in the REV, REW and FF mode as shown in Fig. M-10.
- 4. If it is out of specification, after adjusting the "4-5-6. S4 Tension Post Height Adjustment", confirm this "Envelope Waveform in REV, REW and FF mode" again.

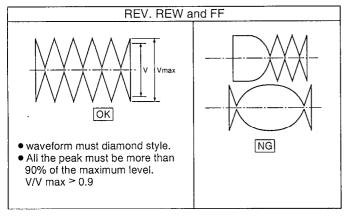


Fig. M-10

# 4-5-5. Confirmation of Envelope Waveform at the beginning of track

- Observe the Envelope Waveform signal by oscilloscope and confirm the envelope signal is in the specification in the transition from FF to Play, from REW to Play, from REV to Play and from Loading completion to Play.
- 2. If it is out of specification, after adjusting the "4-5-6. S4 Tension Post Height Adjustment", confirm this "Envelope Waveform at beginning of track" again.

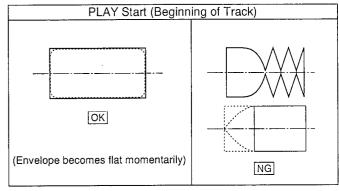


Fig. M-11

### 4-5-6. S4 Tension Post Height Adjustment

Note:

This adjustment should be done when the "4-5-2. Envelope Waveform Adj.", "4-5-4. Confirmation of Envelope in REV, REW and FF mode" or "4-5-5. Confirmation of Envelope Waveform at the beginning of Track" can not be achieved the specification.

- Rotate the S4 Tension Post height 90 degrees counterclockwise from lower limit position.
- Adjust S1 and T1 post height adjustment again. Refer to the "4-5-2. Envelope Waveform Adjustment".
- Confirm the "Play Start Envelope Waveform". Refer to the "4-5-5. Confirmation of Envelope Waveform at the beginning of Track".
- 4. If it is not in the specification, repeat item 1 to 3. The maximum rotation angle is 360 degrees.
- Even the height is still out of specification, confirm the "4-4. T4, S4 and S5 Post Height Pre-Adjustment".

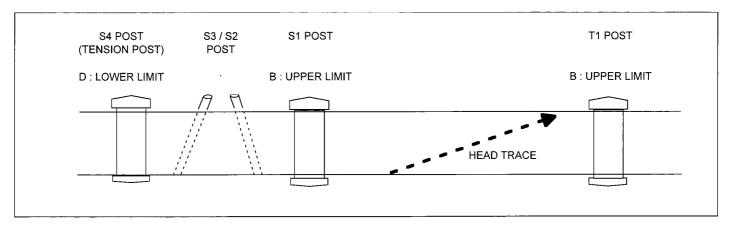


Fig. M-12

### 4-5-7. REV Tape Pass Limit Adjustment

- 1. Place unit into REV mode, and adjust T4 Post so that the lower limit touches the tape.
- 2. Confirm the tape pass limit of each post as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".

### 4-5-8. Play Tape Pass Limit Confirmation

- 1. Place the unit into Play mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- 2. This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- 3. Regarding T4 Post, confirm and adjust this confirmation alternately with "4-5-9. REV Tape Pass Limit Confirmation".
- 4. Confirm the tape pass limit for both L and S cassettes.

### 4-5-9. REV Tape Pass Limit Confirmation

- 1. Place the unit into REV mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- 3. This adjustment should be done alternately with "4-5-8. Play Tape Pass Limit Confirmation".
- 4. Confirm the tape pass limit for both L and S cassettes.

### 4-5-10. FF, REW Tape Pass Limit Confirmation

- 1. Place the unit into FF and REW mode, and confirm the each post limit is in the specification as shown in Fig. M-8.
- This adjustment must be done after "4-5-2. Envelope Waveform Adjustment".
- 3. Confirm the tape pass limit for both L and S cassettes.

### 5. Electrical Adjustment

Since the "PG Shifter Adj." and Video adjustments except "EE Y Level Adj." are required the "PC EVR System", these adjustment procedures are described on "Tatsujin" software.

### 1. Servo Circuit

### 1-1. T and S Reel Offset Adj.

#### [T Reel Offset Adi.]

- 1. Set a cassette on the tray and make the cassette down condition.
- Connect the Digital Volt Meter between TP2701 (T ET) and TP2702 (T GND).
- 3. Adjust VR2702 (T VR) so that the voltage becomes 0 +/- 1mV.

[Supply Reel Offset Ad	[j.]		
TP	ADJ	MODE	Jig & Tool
TP2703 (S ET)	VR2701	Cassette	
TP2704 (S GND)	(S VR)	Down (Stop)	
TAPE	M. EQ	SP	EC.
Mini DV	D.V.M.	0 +/-	1mV

### [S Reel Offset Adj.]

- 1. Set a cassette on the tray and make the cassette down condition.
- Connect the Digital Volt Meter between TP2703 (S ET) and TP2704 (S GND).
- 3. Adjust VR2701 (S VR) so that the voltage becomes 0 +/- 1mV.

### **Tension Adjustment**

When this adjustment is done, melt the grew of the adjustment screws as shown in Fig. E-6

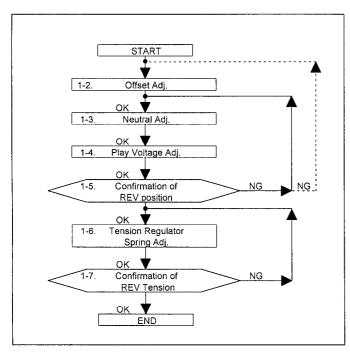


Fig. E-1

#### 1-2. Tension Arm Offset Adj.

TP	ADJ	MODE	Jig & Tool
TP6502 (TP2)	VR6501	Cassette	
TP6503 (TP3)	(TEN SET)	Down (Stop)	
TAPE	M. EQ	SPE	C
Mini DV	D.V.M.	0 +/- (	0.03V

- 1. Set a cassette on the tray and make the cassette down condition.
- Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3).
- Adjust VR6501 (TEN SET) so that the voltage becomes 0 +/- 0.03V.

### 1-3. Tension Arm Neutral Adj.

[	TP	ADJ	MODE	Jig & Tool
Ī	TP6502 (TP2)	Tension Regulator	Loading Condition	VFK1208
L	TP6503 (TP3)	Base	(Service Mode 7)	(Black with Hole)
	TAPE	M. EQ	SPE	EC
Ī		D.V.M.	0 +/- (	0.06V
- [				

- 1. Remove the Tray Unit.
- 2. Set the VFK1208 to the Supply Post Base (A) as shown in Fig. E-2.
- 3. Place the unit into the no tape-loading mode by using Service Mode described as follows.
  - Press the "FF" and "Eject" buttons simultaneously in eight times toset the Service Mode No. 7.
  - Set the mechanism to loading condition by pressing the "Play" button.

Play button: Loading direction Stop button: Unloading direction

- Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3).
- 5. Loosen screw (A).
- Adjust the Tension Regulator Base so that the voltage becomes 0 +/- 0.06V by moving the (D) portion with tweezers that are not magnetized.
- 7. Then tighten the screw (A).

### Caution

Don't touch the magnetized driver or tweezers to S-Reel FG magnet portion, when the "D" portion is adjusting.

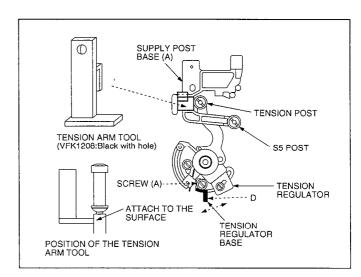


Fig. E-2

### 1-4. Tension Arm Play Voltage Adj.

TP	ADJ	MODE	Jig & Tool
TP6502 (TP2)	VR6502	Loading Condition	VFK1156
TP6503 (TP3)	(TEN GAIN)	(Service Mode 7)	(Black)
TAPE	M. EQ	· SPE	C
	D.V.M.	0.92 +/-	0.03V

- 1. Remove the Tray Unit.
- 2. Set the VFK1156 to the Supply Post Base (A) as shown in Fig. E-3.
- Place the unit into the no tape-loading mode by using Service Mode.
- Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3).
- 5. Adjust the VR6502 (TEN GAIN) so that the voltage becomes 0.92 +/- 0.03V.

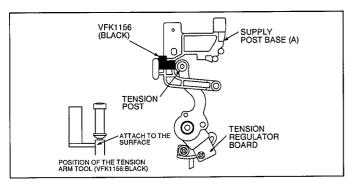


Fig. E-3

### 1-5. Confirmation of REV position of the Tension Arm

TP	ADJ	MODE	Jig & Tool
TP6502 (TP2) TP6503 (TP3)		Loading Condition (Service Mode 7)	VFK1155 (White)
TAPE	M. EQ	SPEC	).
	D.V.M.	-0.92 +/-	0.2V

- 1. Remove the Tray Unit.
- 2. Set the VFK1155 to the Supply Post Base (A) as shown in Fig. E-4.
- Place the unit into the no tape loading mode by using Service Mode.
- Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3).
- 5. Confirm the voltage is in the specification.
- 6. If it is out of specification, readjust "1-3. Tension Arm Neutral Adj." and "1-4. Tension Arm Play Voltage Adj.".
- If it is still out of specification, replace the Tension Post unit and readjust the Tension Arm Adjustment from "1-2. Tension Arm Offset Adj.".

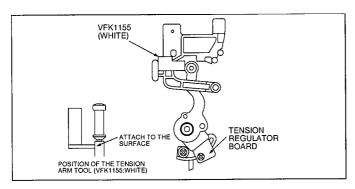


Fig. E-4

### 1-6. Tension Regulator Spring Adj.

ſ	TP	ADJ	MODE	Jig & Tool
Ì	TP6502 (TP2)	Tension	Loading Condition	VFK1188
-	TP6503 (TP3)	Regulator	(Service Mode 7)	(Dial Tension
-	Tension Post	Spring Position		Gauge)
ı	TAPE	M. EQ	SPE	EC
ı		D.V.M.	0.92 V (Pla	y Position)
-		Dial Tension	11 +/	- 1gf
1		Gauge		

- 1. Remove the Tray Unit.
- Place the unit into the no tape loading mode by using Service Mode.
- Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3).
- 4. When pressing the R portion of the Tension Post in arrow direction by Dial Tension Gauge (VFK1188) until the voltage becomes 0.92V (Play Position) as shown in Fig. E-5, loosen screw (C) and adjust the Tension Regulator Spring position (Hook B) so that the tension is in the specification 11 +/- 1gf.
- 5. Tighten screw (C).

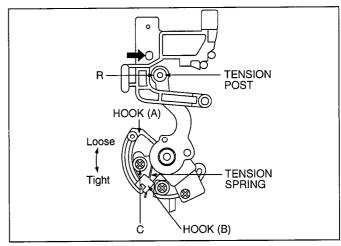


Fig. E-5

### 1-7. Confirmation of REV Tension

TP	ADJ	MODE	Jig & Tool
TP6502 (TP2)	Tension	Loading Condition	VFK1188
TP6503 (TP3)	Regulator	(Service Mode 7)	(Dial Tension Gauge)
Tension Post	Spring Position		
TAPE	M. EQ	S	PEC.
	D.V.M.	-0.92 V (F	REV Position)
	Dial Tension Gauge	18	+/- 2gf

- 1. Remove the Tray Unit.
- Place the unit into the no tape loading mode by using Service Mode.
- Connect the Digital Volt Meter between TP6502 (TP2) and TP6503 (TP3).
- 4. When pressing the R portion of the Tension Post in arrow direction by Dial Tension Gauge (VFK1188) until the voltage becomes -0.92V (REV Position) as shown in Fig. E-5, confirm the tension is in the specification 18 +/- 2gf.
- 5. If it is not, adjust "1-6. Tension Regulator Spring Adj." again.
- Grew the screw A, B and C after Tension Arm Adjustment. The grew quantity at B portion is half of A and C portions as shown in Fig. E-6.

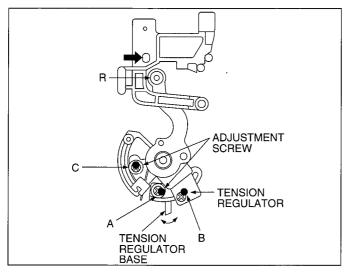


Fig. E-6

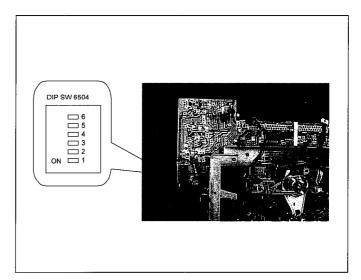


Fig. E-7

### 1-8. Supply and Take-up Photo Sensor Sensitivity Adj.

[Supply Photo Sensor Ad	j.]		
TP	ADJ	MODE	Jig & Tool
TP6501 TP6504 (S Photo)	DIP SW (S6504)	Stop	VFK1426 (6%) VFK1217 (49%) Sensor Cassette
TAPE	M. EQ	S	PEC.
Sensor Cassette	D.V.M.	0.5	- 1.0 V
		Refer	to Fig. E-8

### [Supply Photo Sensor Adj.]

- 1. Set all of the DIP SW (S6504) to ON.
- 2. Insert the 6% Sensor Cassette VFK1426.
- Connect the Digital Volt Meter between TP6501 and TP6504 (S Photo).
- 4. Adjust the DIP SW as shown in Fig. E-8.
- Confirm that the tape is not loaded when installing the 49% Sensor Cassette VFK1217.
- If the tape is loaded when install the 49% Sensor Cassette readjust this adjustment.

### [Take-up Photo Sensor Adj.]

TP	ADJ	MODE	Jig & Tool
TP6501	DIP SW		VFK1426 (6%)
TP6505 (T Photo)	(S6504)	Stop	VFK1217 (49%)
		·	Sensor Cassette
TAPE	M. EQ	S	PEC.
Sensor Cassette	D.V.M.	0.5	- 1.0 V
1		Refer t	to Fig. E-9

### [Take-up Photo Sensor Adj.]

- 1. Set all of the DIP SW (S6504) to ON.
- 2. Insert the 6% Sensor Cassette VFK1426.
- 3. Connect the Digital Volt Meter between TP6501 and TP6505 (T Photo).
- 4. Adjust the DIP SW as shown in Fig. E-9
- Confirm that the tape is not loaded when installing the 49% Sensor Cassette VFK1217.
- If the tape is loaded when install the 49% Sensor Cassette, readjust this adjustment.

### [Supply Sensor]

TP6501 - TP6504 VOLTAGE	DIP SW (S6504) ADJUSTMENT PROCEDURES	RESULT OF THE ADJUSTMENT	REMARKS
When the voltage is 0 - 0.5 V.	1. Change only SW 6 to OFF 2. Change only SW 5 to OFF 3. Change SW 5 and 6 to OFF 4. Change only SW 4 to OFF 5. Change SW 4 and 6 to OFF 6. Change SW 4 and 5 to OFF	If the voltage is not 0.5 - 1.0 V, proceed to the item 2.  If the voltage is not 0.5 - 1.0 V, proceed to the item 3.  If the voltage is not 0.5 - 1.0 V, proceed to the item 4.  If the voltage is not 0.5 - 1.0 V, proceed to the item 5.  If the voltage is not 0.5 - 1.0 V, proceed to the item 6.	If the voltage is in the specification (0.5 - 1.0 V), this adjustment is done.
When the voltage is 0.5 - 1.0 V.	This adjustment is not necessary.		
When the voltage is more that 1.0V.	NG Replace the Supply Photo Sensor. Then readj	ust this adjustment.	

Fig. E-8 Supply Photo Sensor Adj.

TP6501 - TP6505	DIP SW (S6504)		
VOLTAGE	ADJUSTMENT PROCEDURES	RESULT OF THE ADJUSTMENT	REMARKS
When the voltage is 0 - 0.5 V.	1. Change only SW 1 to OFF 2. Change only SW 2 to OFF 3. Change SW 1 and 2 to OFF 4. Change only SW 3 to OFF 5. Change SW 1 and 3 to OFF 6. Change SW 2 and 3 to OFF	If the voltage is not 0.5 - 1.0 V, proceed to the item 2. If the voltage is not 0.5 - 1.0 V, proceed to the item 3. If the voltage is not 0.5 - 1.0 V, proceed to the item 4. If the voltage is not 0.5 - 1.0 V, proceed to the item 5. If the voltage is not 0.5 - 1.0 V, proceed to the item 6.	If the voltage is in the specification (0.5 - 1.0 V), this adjustment is done.
When the voltage is 0.5 - 1.0 V.	This adjustment is not necessary.		
When the voltage is more that 1.0V.	NG Replace the Take-up Photo Sensor. Then r	eadjust this adjustment.	

Fig. E-9 Take-up Photo Sensor Adj.

### 2. Video Circuit

### 2-1. Phase Difference of Y/C Sepa. V Blanking Pulse Adj.

TP	ADJ	MODE	Input
TP30001	VR30001	Stop	Colour Bar
TP30005		(E-E)	Signal
TAPE	M. EQ	S	PEC.
	Oscilloscope	Phase (	Difference T
	1 ' 1	24	1+0.5H

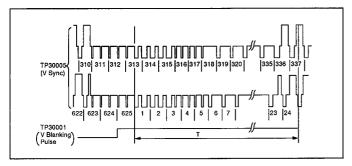


Fig. E-10

### 2-2. Phase Difference of Y/C Sepa. H blanking Pulse Adj.

TP	ADJ	MODE	Input
TP30004	VR30003	Stop	Colour Bar
TP30005	1	(E-E)	Signal
TAPE	M. EQ	SPI	EC.
	Oscilloscope	Phase D	ifference
		T=9.0±0	.25µsec.

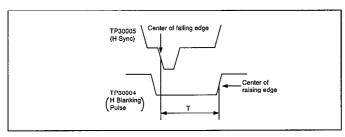


Fig. E-11

### 2-3. PAL Encoder Free Run Frequency Adj.

TP	ADJ	MODE	Input
TP30009	VC30002	Free Run	
(TP30010			<del></del>
TP3007, 8			
TAPE	M. EQ	SPEC.	
	Frequency	Output	Freq.=
	Counter	4.433619MHz±50Hz	

- 1. Connect TP30010 to GND and put the unit into Free Run mode.
- 2. Apply 5V DC power to TP30007 and 2.6V DC to TP30008.

### 2-4.Edit OSD Colour Burst Clock Frequency Adj.

TP	ADJ	MODE	Input
TP30003	VC30001	Stop	
(TP30002)		(E-E)	
TAPE	M. EQ	SPEC.	
	Frequency Counter	Output Freq.= 4.433619MHz±50Hz	

1. Connect TP30002 to GND.

### 2-5.Edit OSD dot Clock Frequency Adj.

TP	ADJ	MODE	Input
TP30013	VC30003	Stop	
(TP30002)		(E-E)	
TAPE	M. EQ	SP	EC.
	Frequency	Output Fr	requency=
	Counter	6.850MHz±50KHz	

### 1. Connect TP30002 to GND.

### 2-6. Phase Difference of Color CTL Burst Gate Pulse Adj.

TP	ADJ	MODE	Input
TP30011	VR30004	Stop	Colour Bar
TP30012		(E-E)	Signal
TAPE	M. EQ	SP	EC.
	0	Phase D	ifference
	Oscilloscope	T=9.0±0.25μsec.	

### 1. Connect TP30002 to GND.

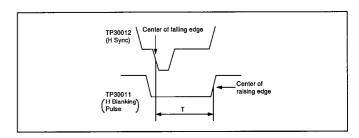


Fig. E-12

### 2-7.E-E Y Level Adj.

TP	ADJ	MODE	Input "
TP3002	VR30002	Stop	Colour Bar
(I/O Pack)	Analog	(E-E)	Signal
	Y/C Pack		
TAPE	M. EQ	SP	EC.
	Ossillanana	Y Level=	
	Oscilloscope	2.0±0.1Vρ-p	

### 1. Terminate the VIDEO OUT at $75\Omega$ .

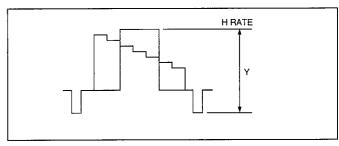


Fig. E-13

### 3. Audio Circuit

### 3-1. Level Meter Adj.

TP	ADJ	MODE	Input
Level Meter on	VR4004	Stop	1 kHz, -6dB
the Front Panel		(E-E)	Audio Signal
TAPE	M. EQ		SPEC.
		0 [dB] Indicator on th	e Audio Level
		Meter just lights up.	

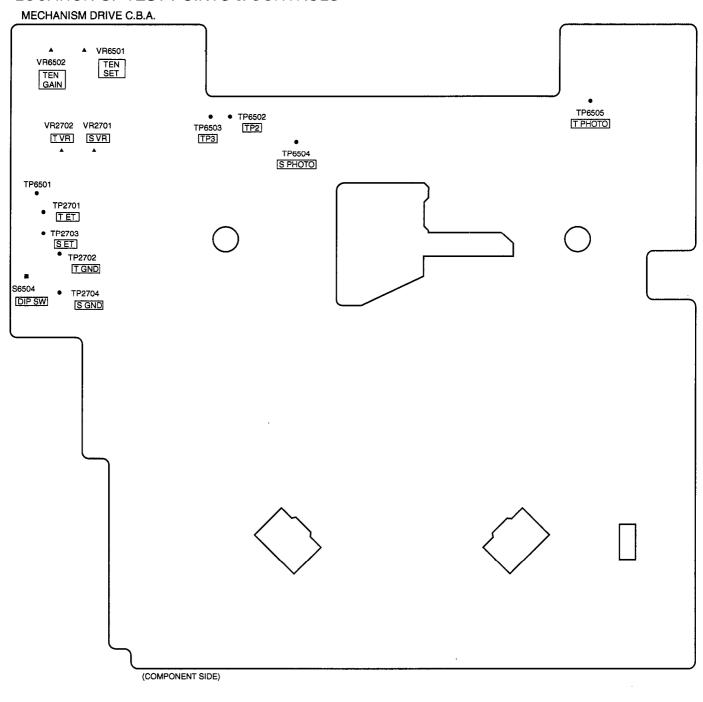
- 1. Set the Audio Rec Level Volume to center (click position : 5)
- Set the output level of the Signal Generator to 1 kHz / -6dB and supply it to both Audio Input Line 1 terminals (L) and (R).
- Adjust VR4004 until the 0dB of the Level Meter on the FIP just lights up.

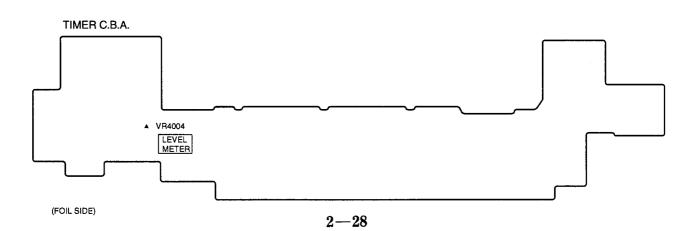
### 6. SPECIAL FIXTURES AND TOOLS

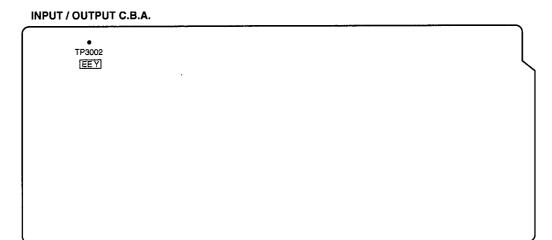
In order to keep the factory adjustment specifications, the following special tools should be used to conduct mechanical and electrical adjustments and servicing.

mechanical and electrical adjustments and servicing.					
Electrical Service an	ıd Adjustment				
VFK1409 Measuring Board	VFK1410 Connection Board	VFK1317 30pin Flat Cable	VFK1405 Audio Extender Board	VFK1406  Digital Extender Board	
/ Date 2	Commodition Board	(Needs 2 cables)			
######################################					
VFK1407P	VFK1408	VJA0941	VFK1436	VFK1448	
Y/C Extender Board	Motor Extender Board	DC Cable (For Measuring Board)	14pin Extender Cable	12pin Extender Cable	
VFK1446	VFK1445	VFK0849	VFK1485	VFM3110EDS	
32 Flat Cable	26 Flat Cable	20pin Flat Cable	EVR Software	Alignment Tape (Color Bar)	
Mechanical Service	and Adjustment				
VFK1348A	VFK1450	VFK1151	VFK1149	VFK1188	
Neutral Plate	Post Height Fixture	Box Driver	Post Driver	Dial Tension Gauge	
		2.5mm			
VFK1217	VFK1426	VFK1155	VFK1156	VFK1208	
49% Sensor Cassette	6% Sensor Cassette	Neutral Position Tool (REV/White)	Neutral Position Tool (PLAY/Black)	Neutral Position Tool (NEUTRAL/ Black w/Hole)	

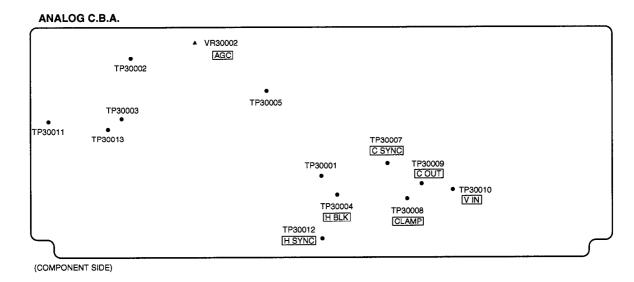
### **LOCATION OF TEST POINTS & CONTROLS**

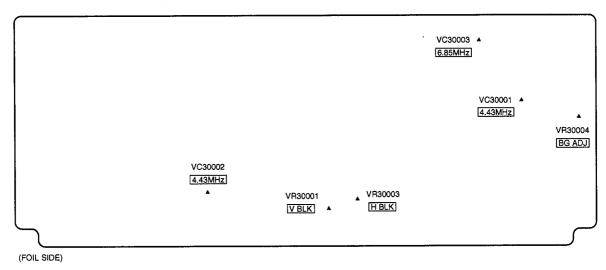






(FOIL SIDE)





## Memo

# SECTION 3 BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS

### 3-1. ABBREVIATIONS

	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
Α	A GND	Analogue GND	1	AILRCK	L/R Clock (to A/D Converter)
``	A. COMP	Audio Component Signal		AIMCK	Master Clock (to A/D Converter)
	A. D.P [L]	Audio Dubbing Pause ①		ALC CNT	Auto Level Control Control
	A. DEF [S]	Audio Defeat		ALC MAIN	Auto Level Control Drive
	A. DUB P [L]	Audio Dubbing Pause ©		ALE	Address Latch Enable
	A. ERASE	Audio Erase		A-LOCK	Full Auto Switch
	A. HASW	Audio Head Amp Switching Pulse		ANLPTH	Analogue Loop Through High
	A. HSW	Audio Switching Pulse		AORP	Audio Overlap Pulse
	A. IN [L]	Audio Input (L)		APCNT	Aperture Control
	A. IN [R]	Audio Input (R)		APS	Auto Power Save
	A. MUT [H]	Audio Mute (f)		ART. V	Artificial Vertical Sync Signal
	A. MUTE [H]	Audio Mute 🛈		ART. V. MM	Artificial Vertical Sync Signal Mono Multi
l	A. OUT [L]	Audio Output (L)		ART. V/H/N	Artificial Vertical Sync Signal H/Normal
	A. OUT [R]	Audio Output (R)		AT. V/H/N	Artificial Vertical Sync Signal
	A. RF OUT	Audio RF Signal Output		ATSW/TEST/NOR/SE	Test/Normal/Service
	A. TR	Auto Tracking		AT CNT	Automatic Tracking Gain Adjust
	A0-8, 0-17	Memory Address		ATF	Automatic Track Finding
	A3V2	AD Converter Reference Voltage		ATFCLK	41.85MHz Clock
	AB0-4	Address Bus		ATFG	Auto Track Gain
	AB0-4, AB12-15	Address Bus Line 0-4, 12-15		ATL	Auto Lock Select
	ABSF	Focus Encoder Input		ATN	Absolute Track Number
	AC. O/EE. H	AC Online/EE (H)		ATR OFF(H)	Auto Tracking Off (H)
	ACI	Analogue Channel Cording IC		ATV	Advanced TV
	AD	AD Converter	ı	AUDIO SELECT [H]	Audio Select (H)
	AD	Auto Date, Analogue Digital Converter	ĺ	AVDD	Analogue VDD
	AD CLK	AD Clock	- 1	AVSS	Analogue Ground
	AD REC	Audio Delayed REC		AWTB	Auto White Balance B-Y
	AD0-6	Address		AWTR	Auto White Balance R-Y
	AD0-6, ADR0-6	Address Data Line			
	ADCLK	Analogue Digital Converter Clock	В	B MODE. H	B Mode (H)
	ADCNT	Analogue Digital Control		B.G.P	Burst Gate Pulse
	ADCS	Analogue Digital Chip Select		BACK	Back-up
	A-DET	Audio Detect		BACK UP	Microcomputer Back-up
	ADREC	Audio Delaied Rec		BACK VDD	Back-up Power
	ADUB	Audio Dubbing		BATT	Battery
1	AE	Auto Expose		BATT ALARM	Battery Alarm
	AECNT	Auto Expose Control		BATT REF	Reference Voltage for Battery
	AEE(H)			l BCB	
	1 ' '	Audio E-E (H)	1	•	B Carrier Balance
1	AEH	Audio Erase Head		BCBM(B-Y)	B-Y Carrier Balance
	AEH AEIRQ	Audio Erase Head Auto Expose Interrupt Request		BCBM(B-Y) BCBM(R-Y)	B-Y Carrier Balance R-Y Carrier Balance
	AEH AEIRQ AF DIS CS	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select		BCBM(B-Y) BCBM(R-Y) BD0-7	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss
	AEH AEIRQ AF DIS CS AFC S C	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz)
	AEH AEIRQ AF DIS CS AFC S C AFC [S]	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L)	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L)		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L]	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ①
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC AGCCNT	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L] BIL	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ① Bilingual
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC AGCCNT AGND	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control Analogue Ground/Audio Ground		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L] BIL BIL [L]	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ① Bilingual Bilingual ①
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC AGCCNT AGND AGS	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control Automatic Gain Control Control Analogue Ground/Audio Ground Anti Ground Shooting		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L] BIL BIL [L] BL	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ① Bilingual Bilingual ① Back Light
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC AGCCNT AGND AGS AH(P) / (R)	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control Automatic Gain Control Control Analogue Ground/Audio Ground Anti Ground Shooting Audio Head (Play) / (Record)		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L] BIL BIL [L] BL BL ON	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ① Bilingual Bilingual ① Back Light Back Light ON (L)
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC AGCCNT AGND AGS	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control Automatic Gain Control Control Analogue Ground/Audio Ground Anti Ground Shooting		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L] BIL BIL [L] BL BL ON BL4V	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ① Bilingual Bilingual Bilingual Bilock Light Back Light ON (L) Back Light 4V
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC AGCCNT AGND AGS AH(P) / (R) AHASW AHSW	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control Automatic Gain Control Analogue Ground/Audio Ground Anti Ground Shooting Audio Head (Play) / (Record) Audio Head Amp Switch Pulse Audio Head Switch Pulse		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L] BIL BIL [L] BL BL ON BL4V BLC 0, 1	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ① Bilingual Bilingual ① Back Light Back Light ON (L) Back Light 4V Back Light Y Control Out, In
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC AGCCNT AGND AGS AH(P) / (R) AHASW AI, AO	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control Automatic Gain Control Analogue Ground/Audio Ground Anti Ground Shooting Audio Head (Play) / (Record) Audio Head Amp Switch Pulse Audio Head Switch Pulse Buffer Input, Output		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L] BIL BIL [L] BL BL ON BL4V BLC 0, 1 BLDI/O	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ① Bilingual Bilingual Bilingual C Back Light Back Light ON (L) Back Light Y Control Out, In Back Light Drive Input/Output
	AEH AEIRQ AF DIS CS AFC S C AFC [S] AFC. DEF A-FADE(L) AF-AMP AFCS AFRP AGC AGCCNT AGND AGS AH(P) / (R) AHASW AHSW	Audio Erase Head Auto Expose Interrupt Request AF DIS Chip Select AFC S Curve AFC S Curve AFC Defeat Audio Fade (L) AF HALL Bias Auto Focus Chip Select Audio PLL Voltage Control Automatic Gain Control Automatic Gain Control Analogue Ground/Audio Ground Anti Ground Shooting Audio Head (Play) / (Record) Audio Head Amp Switch Pulse Audio Head Switch Pulse		BCBM(B-Y) BCBM(R-Y) BD0-7 BDCK BDEN BEND BF BFA BFO/BFI BI, BO BI/MI [L] BIL BIL [L] BL BL ON BL4V BLC 0, 1	B-Y Carrier Balance R-Y Carrier Balance REC/Play In/Out Buss Standard Bus Data Clock (9MHz) Standard Bus Data Enable Data Block End Request Burst Flag Pulse Burst Flag Pulse for Encorder Burst Flug Input/Output Buffer Input, Output Bilingual/Mix ① Bilingual Bilingual ① Back Light Back Light ON (L) Back Light 4V Back Light Y Control Out, In

INITIAL/LOGO	ABBREVIATIONS	INITIAL/LOGO	ABBREVIATIONS
BLKA	Blanking Pulse for Encorder	CH1	Channel 1 (Odd Field)
BLKI/O	Blanking Pulse In/Out	CHR	Character
BLKZ	Blanking Pulse for Zoom Encorder	CHR BACK	Character Back-up
ВМ	Balance Modulator	CHR MIX	Character Mix
BQUIET	Bus Out Control Signal	CI, CO	Buffer In/Out
BS CLOCK	BS Clock	CI,CO	Buffer Input & Output
BS DATA	BS Data	CIF	Control Signal Forward Input
BS LCH IN	BS L Channel Input	CIF, CIR	Positive Control Pulse, Negative Control Pul
BS MIX [H]	BS Mix (H)	CIR	Control Signal Reverse Input
BS MONI [H]	BS Monitor (H)	СК	Clock
BS MONI [H]	BS Monitor (H)	CKL	Ratch Lock
BS RCH IN	BS R Channel Input	CKS	Shift Lock
BUF IN/OUT	Buffer In/Out	CL/CLK	Clock
B-Y KB	B-Y Carrier Balance	CLASS	Classeffication Signal for Compress (DCT/VL0
B-YO	B-Y Signal Out	CLASS 0.1	Class Control Signal Durring DCT/VLC
15-10	B-1 Signal Out	CLA33 0.1	
C A In/Out	Dro Aporturo In/Out		13.5MHz System Clock
	Pre-Aperture In/Out	CLK18	18MHz System Clock
CAPSTP	Capstan Stop Flag	CLK2	Clock 2 (824XFH: 12.875MHz)
C CNT	Colour Control	CLK246	24.576MHz Clock
C SYNC	Composite Sync Signal	CLK27	27MHz System Clock
C/N	Carrier/Noise	CLK450	450KHz Clock
C0-7, C00-07	Chrominance Signal 0-7	CLKDCLK	Digital Clock
CAGAIN	Aperture Gain Control	CLK-PH	Clock Phase Control
CAM TL	Capstan Trque Limit	CLK-REF	Reference Clock
CAP EC	Capstan Trque Control	CLP-RST-H	Clamp Reset High Signal
CAP M GND	Capstan Motor GND	CLY FG	Cylinder FG Signal
CAP P(H)	Capstan Power On (H)	CMEMO0-3	Chroma Memory Output Signal 0-3
CAP R/F/S	Capstan Reverse (H)/Stop (M)/Forward (L)	CMIX	Character Mix
CAP SW	Capstan Power Control Switch	CMO	Chrominance Memory Output
CAP. ET	Capstan Torque Control	COL/B/W/NOR	Colour/Black & White/Normal
CAP. FG1	Capstan FG1 Pulse	COLOR [H]	Colour (H)
CAP. FG2	Capstan FG2 Pulse	COMPC	Position Detection Pulse
CAPSTP H	Capstan Stop Flag (Stop High)	COM RDY	Serial Enable Signal
CAPVM	Capstan Motor Current	CNCLK	Clock
CAPVS	Capstan Motor Power Control Switch	CNR	Chrominance Noise Reduction
CAS. SW	Cassette SW	CNT, CONT	Control
CAS	Compresion, Audio Process, Shuffling/Deshuffling	co	Control Out
CAS	Memory Address Strobe (Active Low)	CO0-7	Chrominance Output 0 to 7 (Digital)
CASDOWN, DWN	Cassette Down (L)	СОМ	Common
CB, CR	Chroma B, Chroma R	COM RDY	Serial Transmission Enable
CBLK	Composite Blanking Pulse	СОМВ	Comb Filter
CC	Channel Cording	COS EQ	Cosin Equalizer
CCA	Curent Drive Control	CP	Clamp Pulse
CCA	Current Control Amp	CP ON(H)	Camera Power On(H)
CCD	Charge Coupled Devise	CP2, 20	Clamp Pulse
CCW	Counterclockwise	CP2A, CP2O	Encoder Clamp Pulse
CD SP0-7	Digital Chroma	CPN	Component Signal
CDS	Correlate Double Sampling Signal	СРОВ	Clamp Pulse for Optical Blanking
CDS1, 2	Sampling Pulse for CCD Output Signal	CPS	Composite Signal
CE	Chip Enable	CPV	Gate Scan Clock
CE	· ·	<b>1</b>	
	Control Pulse Erase	CR OUT	Pre Apature Out
CEC	Capstan Error Code	CR POW SW	Camera Remote Power On Switch
C-ERA(H)	Control Erase (H)	CRA	Aperture Gain Control
CFEM	Chrominance Memory Signal	CRA	Pre Apature Gain Control
CFM	Chrominance Field Memory	CS	Chip Select
CFM1-4	Chroma Field Memory Signal	CS 0-7	Chrominance Signal Out 0-7
CG CLK	Character Generator Clock	CSEL	Clock Phase Select
CG CLK DATA	Clock Generator Data	CSI 0-7	Chrominance Signal In 0-7
CG DATA	Character Generator Data	CTSW	Crosstalk Switch
CGC	Chrominance Gain Control	CURR	Current
CGCS	Character Generator Chip Select	CURRENT LIM	Current Limmiter
CGO	Character Generator Serial Data	cw	Clockwise
CH	Charge	CYL EŢ	Cylinder Motor Trque Control
1 011		· <del>-</del> ·	, . ,

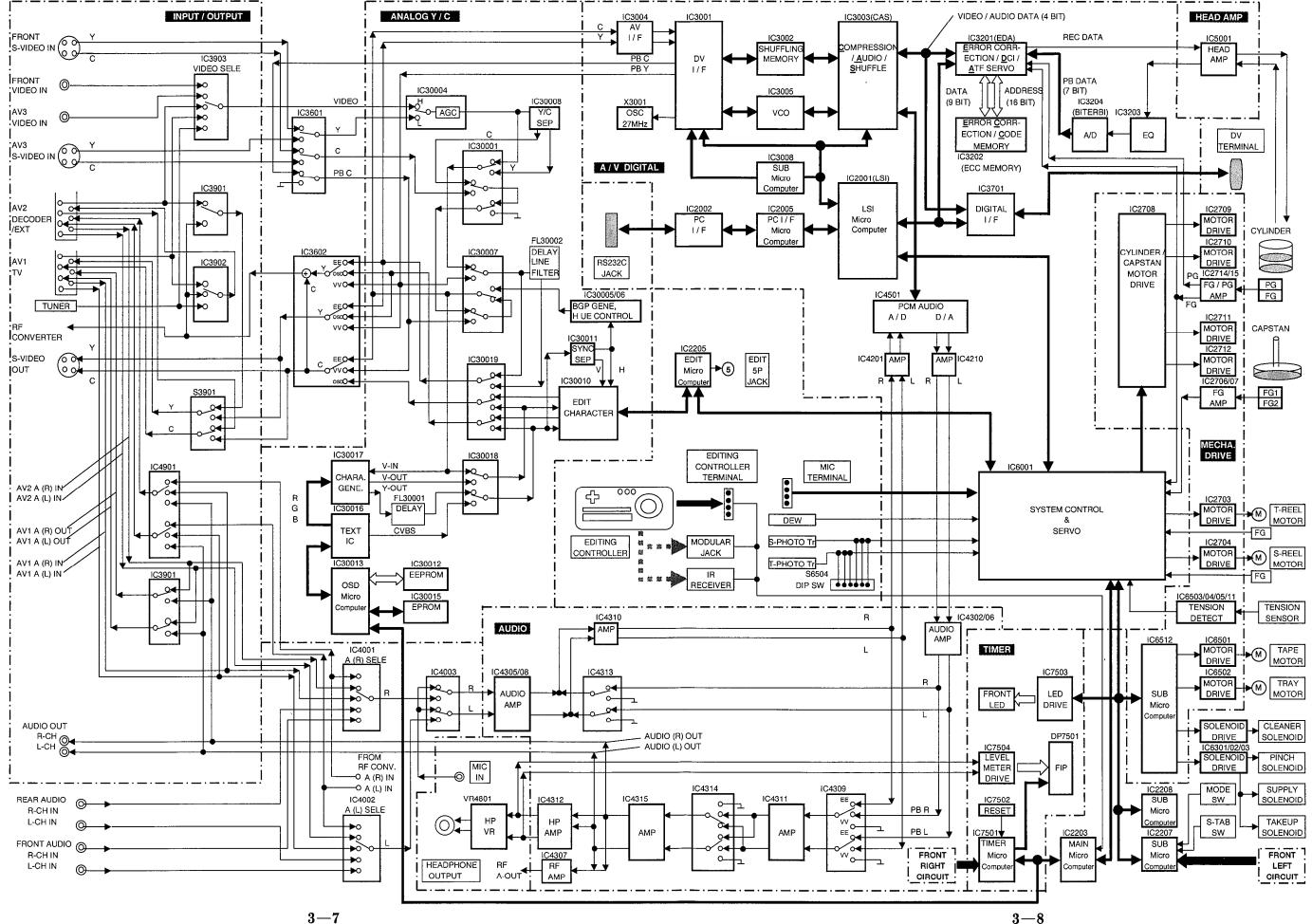
	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	CYL PG	Cylinder Motor PG		DSF 0-7	Input/Output Data to Shuffling Memory (18MHz)
	CYL VM	Cylinder Motor Current or Power		DSP	Digital Signal Processor
l l		•		DSP R/B	DSP IC Rady/Busy
Б	D CLK	Digital Clock		DSP-48K-H	DSP IC Clock Select
	D MODE	Digital Mode Switch Signal		DSTB	Data Stobe Signal
	D. FM REC [H]	Delaied FM Recording ⊕		DSV	Digital Sum Variation
	D. FM REC [L]	Delaied FM Recording ©		DV	Digital Video
	DA UV SEL	D/A Convertor U/V Select		DVB	Digital Video Broadcast
	DAC	Digital Analogue Converter		DVC	Digital Video Cassette
	DAG	Digital Analogue Ground		DVDD	Digital VDD
	DB0-7	Data 0-7		DVIO	Digital Video Input Output
	DB0-7	Microprocessor Data		DVSS	Digital GND
1	DCC	DC Clamp Control			-
1	DCCNT	DC Control	Ε	E2 CS or E2P CS	EEPROM Chip Select
	DCI	Digital Channel Cording IC		E2 R/B	EEPROM Rady/Busy
	DCLR	Digital Clear		E2P	EEPROM
1	DCP	Digital Clamp Pulse		EARP	Earphone
	DCS-CLK, DA	CAS & DV I/F Serial Clock		EC	Torque Control
1	DC-STP1	DCS Serial Start		ECC	Error Correction Cording
	DC-STP2	DCS Serial Stop		ECM	Electric Condencer Mic
	DCT	Discrete Cosine Transform (Compression)		ECR	Reference Voltage for Capstan Torque
	DCX7	Serial Data		EDA	Error Correction, DCI, ATF Servo
	DEDP 0-3	Playback Data	ı	EDT TRIG [L]	Edit Trigger ①
1	DEDR 0-3	Rec Data		EDIT [H]	Edit (H)
	DEMO	Demodulation		EE [H]	EE (H)
	DEMP	A/D Convertor Empahsis Control		EE CS	EEPROM Chip Select
1	DEMP	De-Emphasis		EE R/B	EEPROM Read (H)/Busy (L)
1	DFD 0-7	Encode Data In/Out Between Shaffling Memory		EEPROM	Electric Erasable Programable Read Only Memory
1	DFD0-7	Encode Input/Output Signal for Shuffling Memory	1	EIS	Electric Image Stabilizer (DIS)
1	DIBDCK	Bit Clock		EMP	A/D Convertor Emphasis Control
1	DICLK	Digital Clock		ENAB	Enable
1	DIDAT	Serial Data		ENV	Enverope
	DIDAT	Serial Data Durring Digital Audio In		EOB	End of Block
	DIF	Digital Interface		EP [H]	LP ⊕
	DILRCK	L/R Clock		EP/LP [H]	LP ⊕
ŀ	DILRCK	Serial Clock Durring Digital Audio In		EP/LP/SP	LP/SP
1	DIMCK	Master Clock	l	EP/SS [H]	LP/Slow/Still/Stop (H)
	DIMCK	Mater Clock Durring Digital Audio In		EPROMCS	EPROM Chip Select
	DIO 1-8	Data In/Out		EQ	Equalizer
	DIOS	Data In/Out Select Control Signal		EXT S DATA	Serial Data for Edit
Į.	DIOS	Select Signal for Digital In/Out	l	EXT SCK	Serial Clock for Edit
1	DIS	Digital Image Stabilizer	L		
	DIS R/B	Digital Image Stabilizer Read (H)/Busy (L)	F	FACT MODE	Factry Mode (not used in the service)
	DIS R/B	DIS IC Rady/Busy	1	FB	Feed Back
	DIS/KAND	Digital Image Stabilizer/Sensitivity		FC	Saw Tooth Signal In
	DISCS	Dis Chip Select	1	FCK ,	Clock
	DISP	Display		FCO	Saw Tooth Signal Generator
	DL	Delay Line		FEND	Frame End Pulse
	DOBCK	Audio A/D Convertor Bit Clock		FF/REW [L]	First Forward/Rewind ①
	DOCTL	Data Output Control Signal	1	FG1 IN	FG1 Pulse Input
	DODAT	Serial Data (to D/A Converter)		FG2 IN	FG2 Pulse Input
	DOLRCK	Audio A/D Converter LR Clock		FH2B	FH/2 (15.625KHz / 2=7.8125KHz)
1	DOLRCK	L/R Clock (to D/A Converter)		FIX OSD	Auto Tracking Off (H)
	DOMCK	Audio A/D Converter Master Clock	1	FLICK	Flicker Output
	DOMCK	Master Clock (to D/A Converter)	1	FLY ERASE [H]	Flying Erase Head On (H)
	DQ 1-16	Memory Data	1	FM	Field Memory
	DRAM CAS	D-RAM Colum Address Strobe	1	FM MUT [H]	FM Audio Mute (I)
1	DRAM OE	D-RAM Out Enable		FM MUTE [H]	FM Audio Mute (H)
	DRAM RAS	D-RAM Read Address Strobe		FM0-7	Field Memory 0-7
	DREC	AV Delayed REC Start Pulse		FMCO0-3	Field Memory Chrominance Out 0-4
	DRK	Dark (LPF Switch for Auto Focus)	1	FMDIR	Focus Motor Direction
	DS1, 2	Double Sampling Pulse		FMOEM	Field Memory Enable
L	DSF 0-7	Data In/Out for Shaffling Memory	<u></u>	FMOEO	Field Memory Enable

	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	FMT1-4	Focus Motor Terminal 1-4		ITI	Insert & Track Information
	FMY00-07	Field Memory Luminance Out 0-7			The second secon
	FMYI0-07	Field Memory Luminance In 0-7	J	JPEG	Joint Photographic Image Cording Experts Group
	FNO	F Value			The state of the s
1	FPS	Frame Refference Signal	K	KANDO	Digital Gain Up
	FR	Capstan Reverse High	'`	KB	Carrier Balance
	FRP	Frame Refference Pulse		KEY IN	Key Scan
	FRPSO	Frame Start Pulse		KND	Digital Gain Up
	FUL. E [H]	Full Erase Head On (H)		KNEE	1 *
	FULL. E [H]	Full Erase Head On (I)		KINEE	Luminance Compensate
	1 000. 0   1   1	Tuli Erase flead Off (ii)	- 1	1.5	LIP-I
G	G1, G2, G3	Gap 1, 2 and 3	L	LD	Load Pulse
١٩	GCA	1	ı	LEDCNT	LED Control
	GCNT	Gain Control AMP	ŀ	LI-BATT	Lithium Battery
		Gain Control		LOAD	Loading
	G-CNT	AGC Adjustment		LOAD F, R	Loading Direction (F: Forward / R: Reverse)
	GCTRL	Gain Control		LPF	Low Pass Filter
	GENE	Generator		LRMONO	Monoral Audio (L + R)
	GF	FG AMP Terminal	- 1	LSB	Least Significant Bit
	GSW	Ground for Switching Power	ı	LVL	LPF Switch for Auto Focus
$oxed{oxed}$					
Н	H/M/N	Hi-Fi / Mix / Normal	М	M GND	Motor GND
	H/N	Hi-Fi / Normal		M1-3	Motor Coil Terminal 1 to 3
	H. SYNC	Horizontal Sync		MA0-5	Microprocessor Address Data 0-5
	HAP	Horizontal Aperture		Mbps	Megahertz Bit Per Second
	HASW	Head AMP Switching Pulse		MD	Modulation
	НВ	Hall Bias		MD0-7	Microprocessor Data 0-7
	HBR SET	High Brightness Set	- 1	MDT0-7	Microprocessor Data 0-7
	HBRST	High Brightness Set		ME (TAPE)	Metal Evaporated (Tape)
	HCLR	High Clear	ı	MES [H]	Mesecam (Hape)
	HCP	Shift Clock for Horizontal Drive		MESE [H]	Mesecam (f)
	HD	Horizontal Drive Pulse			
	HDTV	High Definition TV		MESE [L]	Mesecam (L
	HEX	Hexadecimal		METER 5V	Level Meter 5V
				METER [L]	Level Meter (L)
	HG	Hall Gain		METER [R]	Level Meter (R)
	HID	Head Switching Pulse		METER. L/AVS	Level Meter (L)
	HLT	High Bright Signal		METER. R/AVS	Level Meter (R)
	HALL IN(+), (-)	Input Signal from Hall IC		MHSYNC	Monitor Horizontal Sync Signal
	HP	Headphone		MI/BI [L]	MIX ⊕/Biligual
	HPF	High Pass Filter		MIC	Memory In Cassette
	HSE	Modulated Data Output		MIG	Meta In Gap
	HSP	Timing Pulse for Shaffling Memory		MIX N.R.D.	Non Rec Data Mix
	HSS	Horizontal Sync Signal		MOD	Modulation
	HSW	Head Switching Pulse		MODE SEL	Audio Mode Select
		_		MODE SW	Audio Mode SW
T	I/F	Interface	$\neg$	MONO [H]	Monaural (H)
	I-2 C	Inter Integrated Circuit		MOUT	Mic Out
	ID(H)	Wide Television (H)		MP (TAPE)	Metal Particle (Tape)
	IMP	Inter Microprocessor Protocol		MSB	Most Signal Bit
	IN SELA1	Input Select A1 Position	j	MOD	Wost Signal Bit
	IN SELAT	1 ·		N/D	NTCC/DAL
		Input Select A2 Position	N	N/P	NTSC/PAL
	IN SELA3	Input Select A3 Position		NB1-3	Base for NPN Transistor
	INS L/R [L]	Insert Lch/Rch (L)		NC	No Connection
	INS. [H]	Insert (H)		NC1-3	Corrector of NPN Transistor
	INTER	Interval Recording		NCLR	Power On Reset
	INV	Inverter		NCP1	Clamp Pulse
	IOU	R-Y Analogue Signal Output		NDE	Non Liner De-Emphasis
	IOV	B-Y Analogue Signal Output		NE	Emitor of NPN Transistor
	IOY	Y Analogue Signal Output		NLE	Non Liner Emphasis
	IR	Infrared Rays		NR	Noise Reduction
	IRDET	Imfrared Ray Detection	ļ	NRD	Non Rec Data
	IREF	Current Adjustment Terminal		NRD BLK	Non Rec Data Blanking
	IRIS/SH	Iris / Shutter Control		NRD CLK	No Rec Data Clock
	IRQ	Interrupt Request	ı	NRE	*
	11 102	Turrenahr Liednesr	- 1	ואטב	Read Enable Input (Low Active)

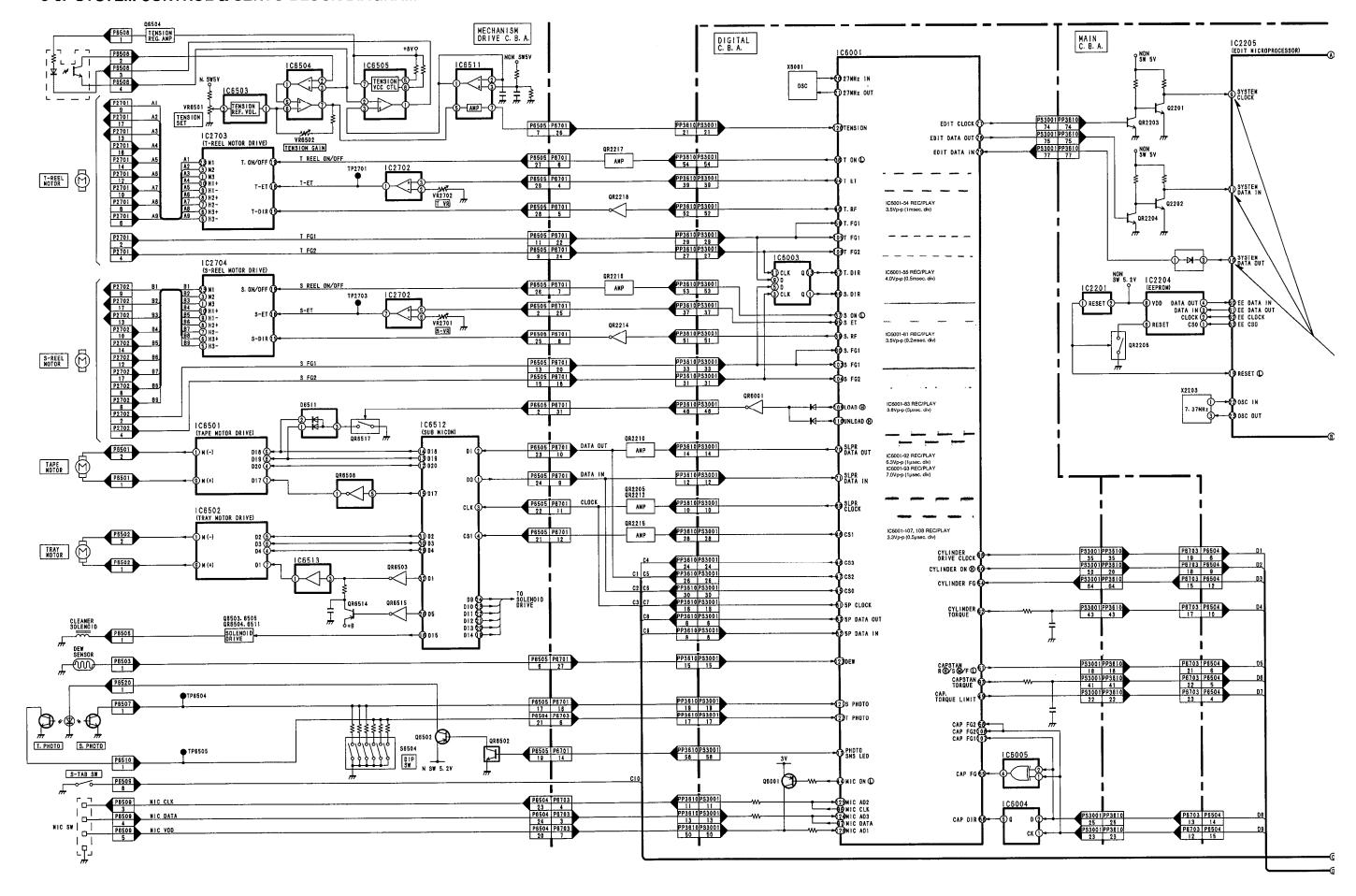
	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	NWE	Write Enable (Low Active)		R-B	R Bias
		, , ,		RCB	R Carrier Balance
0	OB	Optical Black		RE	Read Enable
	OBCNT	Optical Black Control		RE(F), (S)	Rotary Erase Head Transformer
li	OBREF	Reference Voltage for Optical Black Control		REB	R Bias
	OCH	Control AGC Circuit		REC CC	Rec Current Control
	OE	Output Enable		REC CCNT	Rec Current Control
1	OFH	Horizontal Counted Down Clock Signal (Reference)		RECCTRL	Recording Control Pulse
	OFS	Offset		RECI	Rec Amp Switch
	OP	Operation AMP Output		RENCF	Lens Control (Forward)
	OSD	ON Screen Display		RENCR	Lens Control (Reverse)
	OVL	Overlap Pulse		RERASE	Rotary Erase Head
	0.2	overlap v alos		RF. CHROMA	RF Chrominance Signal
Р	P. FAIL	Power Failure Detect		RGBIV1-2	1V Inverted Signal 1-2
1'	P. OFF [H]	Power Off (H)		RGO R/G OFF	Offset Voltage for AWT R
	P. OFF [L]	Power Off ①		RSF	Capstan Direction (Reverse / Stop / Forward)
	P SW	Power Switch		RST	Reset
	PB1-3	PNP Base 1-3		RSTB	R Strobe
	PBCTL	Play Back Control		RSTPWD	Reset Power Down Input
	PBCTL PBCTL	Pre-Branking Control		RSTR	Reset Read
	PBH			RSTW	Reset Write
		Head Amp Switch		RT	Saw Tooth Terminal
	PBLK	Pre-Blanking (Pulse)		RVCO	Resister for Oscillation
	PC1-3	Corrector of PNP Transistor		RW	Read Write
1 1	PCBM	Carrier Balance			Read Write Enable
	PCH	Phase Compensator (Hall AMP)		RWAE	Head Write Enable
	PCI	Phase Compensator (Current)	Ļ	0.101	Carial Data Innut
	PCO	Phase Compensator Out	S	SIN	Serial Data Input
1	PCS	Switching Power Control	Ì	S OUT	Serial Data Output
	PCV	Phase Compensator (Voltage)		S-PHOTO	Supply Photo Transistor
	PE	Emitter of PNP Transistor		S-RL. PLS	Supply Reel Pulse
	PED	Pedestal	1	S. CLK	Serial Clock
	PEDECNT	Pedestal Control		S. CLK/AV	Serial Clock/AV
1	PENO	Alarm (L)	ľ	S. DATA	Serial Data
	PFP	Pilot Frame Position		S. TAB [L]	Safety Tab SW ON ©
	PGA, B	Power Ground A, B		S/H	Sampling Hold
	PGC	Pulse Generator Comparator		S/PIN	SECAM/PAL/NTSC
	PGI	Pulse Generator Input		S/S	Start/Stop
	PGMM	Pulse Generator Monostable Multivibrator		SBD	Serial Data
	PGO	Output of Pulse Generator AMP		SBI	Serial Data Input
	PMODE	Select Signal for Normal / Wide Screen	l	SBO	Serial Data Output
	PON	Power On		SBT	Serial Clock
	POR	Power On Reset		SC IN	Serial Clock Input
	POSCOM	Common Position		SC OUT	Serial Clock Output
	PREAMP	Pre-AMP		SCAN0-5	Key Scan 0-5
	PREBLK	Pre-Blanking		SCK	Serial Clock
	PT	Protect for V Voltage	l	SCK SELECT	Serial Clock Select
1	PWM	Pulse Width Modulation		SCR	Search
ļ	PWMB	Pulse Width Modulation Pulse	1	SCR, S.C.R.	Still Cue Review
	PWRFAIL	Power Failure Detect		SEG.	Segment
			1	SET	White Balance Set
Q	Q2H	Source Output Select	1	SH/IRIS	Shutter/Iris Control
1		·		SHIFT	Capasitor for Phase Shift
R	R CTL P	Recorded Control Pulse (+)	1	SI	Serial Data Input
1.,	RCTLR	Recorded Control Pulse (-)		SIC	Shift In Clock Input
	R/B	Read/Busy		SIF	Sound Intermediate Frequency
	R/L	Direction Control for Data Transmition		SIOC	Serial In/Out Control
	R/S/F	Reverse (H)/Stop (M)/Forward (L)		SMCE	Shaffling Memory Chip Enable
		_	1	SMRS	Shaffling Memory Read Strobe
	RA	Recording AMP	1	SMWE	Shaffling Memory Write Enable
1	RA1	Rec AMP 1			Shaffling Memory Read Strobe
	RAC AC	Rec Audio Current		SMWS	1
	RAD	Read Address Data		SNAP	Snap Shot
	RAE	Read Address Enable	1	SNS LED	Sensor LED
	RB	Read Busy	1	SO	Serial Data Output

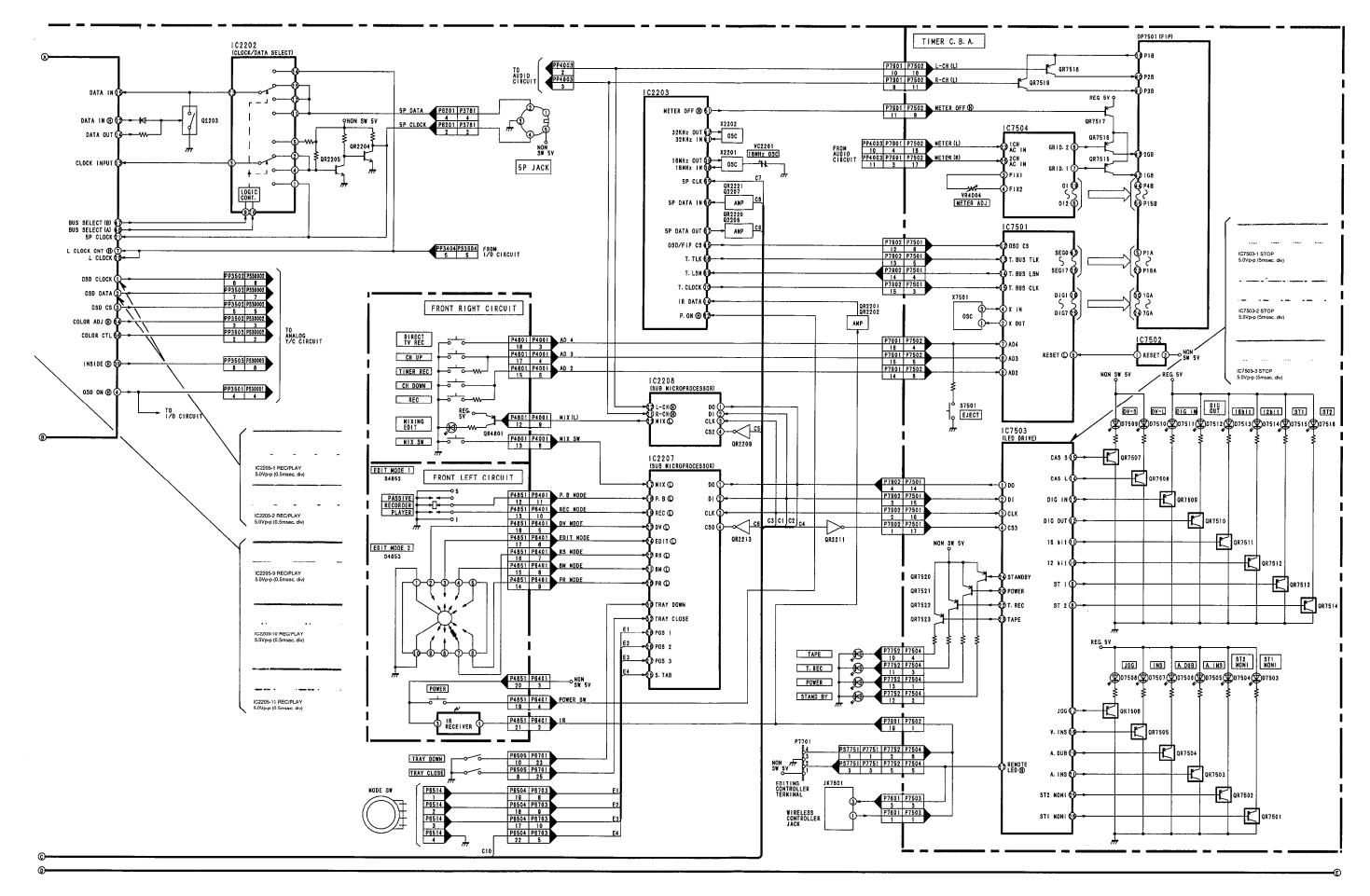
	INITIAL/LOGO	ABBREVIATIONS		INITIAL/LOGO	ABBREVIATIONS
	SPA	ATF Smapling Pulse		VDDX	X Drive Power for Colour LCD
	SPEN	8 Bit Shift Register Enable		VDDXY	XY Drive Power for Colour LCD
1	SPK	Speaker		VDDY	Y Drive Power for Colour LCD
	SPO	Reset for Switcing Power		VDREC	Video Delayed Rec
	SPST	8 Bit Shift Register Strobe	ĺ	Vgg	Voltage for Gate IC
	SREELP	Supply Reel Pulse		Vgi Vgi	Gate off Voltage
	SRT	Start	1	VID	Video Signal Out
	SSA	Start Sync block Area		VIN	Video In
	SSS [L]	Slow/Still/Stop		VITC	Vertical Interval Time Code
	SSW [L]	· · · · · · · · · · · · · · · · · · ·		1	
1	ST5V	Select Signal for Low Pass Filter		VITERBI	One of Signal Detection Method
	STAB	Safety Tab Switch		VL	Low Voltage
		Safety Tab Switch	ŀ	VLC	Variable Length Cording
	STB	Stand by Signal		VLOCKP	Artificial Sync Pulse
	STB	Strobe		VLP	Artificial Sync Pulse
l	SWB	Switching Pre-Drive Pulse		VM	Motor Voltage
ΙI	SYL EC	Cylinder Torque Control		VMD	Velocity Mode Data
ΙI	SYL FG	Cylinder FG		VMD1-3	Electric Shutter Mode
닏				VMODE	NTSC/PAL Select Switch
T	T-PHOTO	Take-Up Photo Transistor		VMVH	VH Filter Switching
	T-RL. PLS	Take-Up Reel Pulse		VORP	Video Overlap
	T. BUSCLK	Timer Bus Clock		VRB	Voltage Refference Bottom
	T. BUSLSN	Timer Bus Listen	- [	VRBS	Voltage Refference Bottom Output
1	T. BUSTLK	Timer Bus Talk		VREFH	Refference Voltage High Side
	TBC	Time Base Conntrol		VREFL	Refference Voltage Low Side
	TFT	Thim Film Transistor		VRI	Refference Voltage Input
	TH	Thermostat for Battery		VRO	Refference Voltage Output
	TI	Test Mode Select		VRT	Voltage Refference Top
	TL	Torque Limit		VRTS	Voltage Refference Top Output
	TM	Sub Code	i	VS	Switching Comparator
	TMD	Sub Code Data		VSS	Vertical Sync Signal
	TRE	Tracking Error Signal			
	TREEL(P)	Take-up Reel (Pulse)	W	/ W/N	Mode Select for Window Mode
	TRFIX	Tracking Fix		W/N	Wide / Normal
	TRIWAVE	Tracking Wave		WAD	Write Address Enable
	TRP	Tracking Position		WAE	Write Address Enable
	TOD	l <u> </u>			
	TRP	Trap		WAERAE	Write Address Enable
	TSR	Trap Head Switching Refference		WAERAE WARI	Write Address Enable Interrupt
					1
	TSR	Head Switching Refference		WARI	Interrupt
	TSR TST	Head Switching Refference Time Scale Transfer		WARI WB	Interrupt White Balance Write Enable
	TSR TST TU. AUDIO	Head Switching Refference Time Scale Transfer Tuner Audio		WARI WB WE	Interrupt White Balance Write Enable Memory Write Enable
	TSR TST TU. AUDIO TU. GND	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND		WARI WB WE WEM WSB	Interrupt White Balance Write Enable Memory Write Enable B AGC Control
	TSR TST TU. AUDIO TU. GND TU. V. IN	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input		WARI WB WE WEM	Interrupt White Balance Write Enable Memory Write Enable
U	TSR TST TU. AUDIO TU. GND TU. V. IN	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video		WARI WB WE WEM WSB WSR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control
U	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input	×	WARI WB WE WEM WSB WSR WTV	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV
U	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video R-Y/B-Y Select Signal	×	WARI WB WE WEM WSB WSR WTV	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input
U	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable	×	WARI WB WE WEM WSB WSR WTV	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output
U	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable	X	WARI WB WE WEM WSB WSR WTV  X IN X OUT	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input
U	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset
U	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable	X	WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7
V	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL V. REF	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H]	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE (H)		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L]	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① VIdeo EE ①		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Vldeo EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE (H) VIdeo EE (L) Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL VCO	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE (H) VIdeo EE (L) Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control Voltage Control Oscillator		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL VCO VCP	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control Voltage Control Oscillator Shift Clock Output for Vertical Drive		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL VCO VCP VCTLD	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control Voltage Control Oscillator Shift Clock Output for Vertical Drive Video Control		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction
	TSR TST TU. AUDIO TU. GND TU. V. IN TU. VIDEO  U/V SEL UNLOAD UNRE UNWE UV UV SEL  V. REF V. EE [H] V. EE [L] VCO REF V1-V4 VB VCE VCNTL VCO VCP	Head Switching Refference Time Scale Transfer Tuner Audio Tuner GND Tuner Video Signal Input Tuner Video  R-Y/B-Y Select Signal Un-Loading Microprocessor Read Enable Microprocessor Write Enable R-Y/B-Y R-Y/B-Y Select Signal  Reference Voltage Video EE ① Reference Oscillater V. CCD Drive Pulse VH Filter Switching Power Terminal Video Control Voltage Control Oscillator Shift Clock Output for Vertical Drive		WARI WB WE WEM WSB WSR WTV  X IN X OUT XP  Y FM0-7 YCE YGC YMO 0-7 YNCST YNR	Interrupt White Balance Write Enable Memory Write Enable B AGC Control R AGC Control Wide TV  Oscillator Input Oscillator Output FG Logic Reset  Y Field Memory 0-7 Cylinder Error Code Y Gain Control Y Field Memory 0-7 Noize Canceller Luminance Noise Reduction

### 3-2. OVERALL BLOCK DIAGRAM

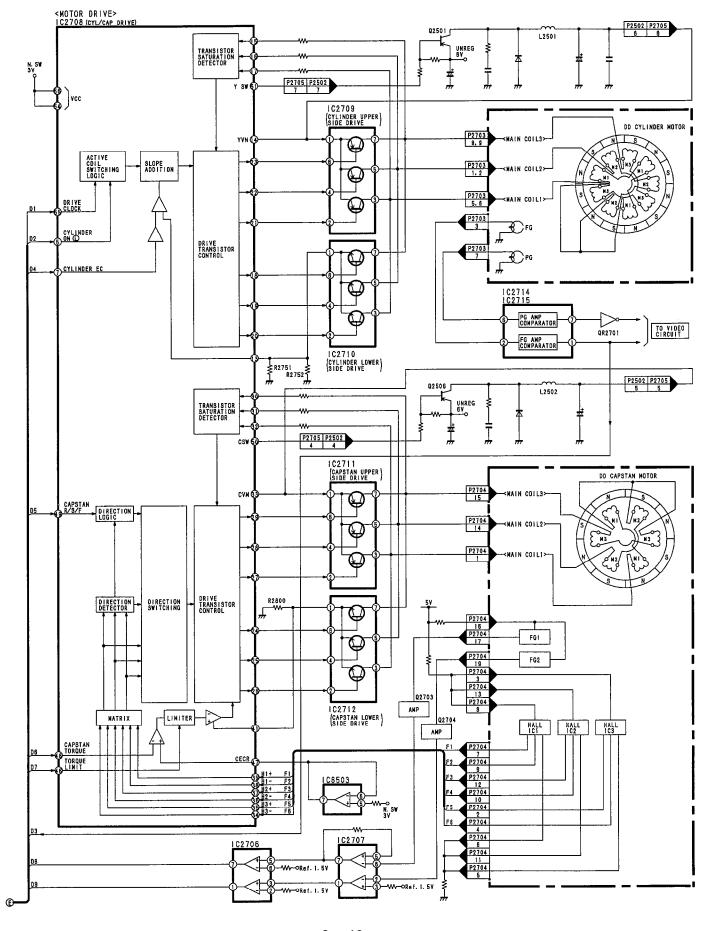


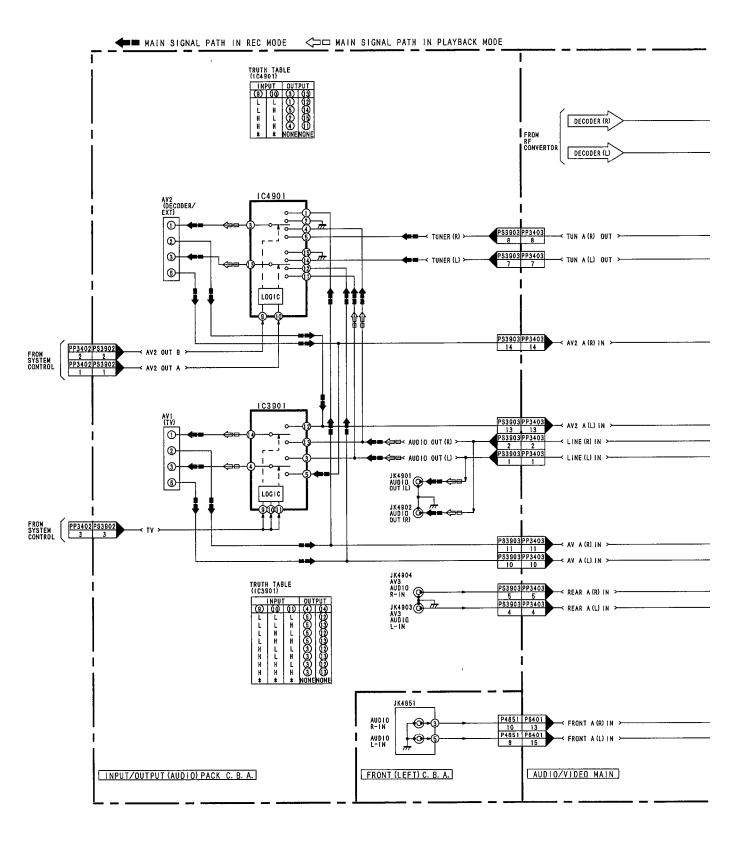
### 3-3. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

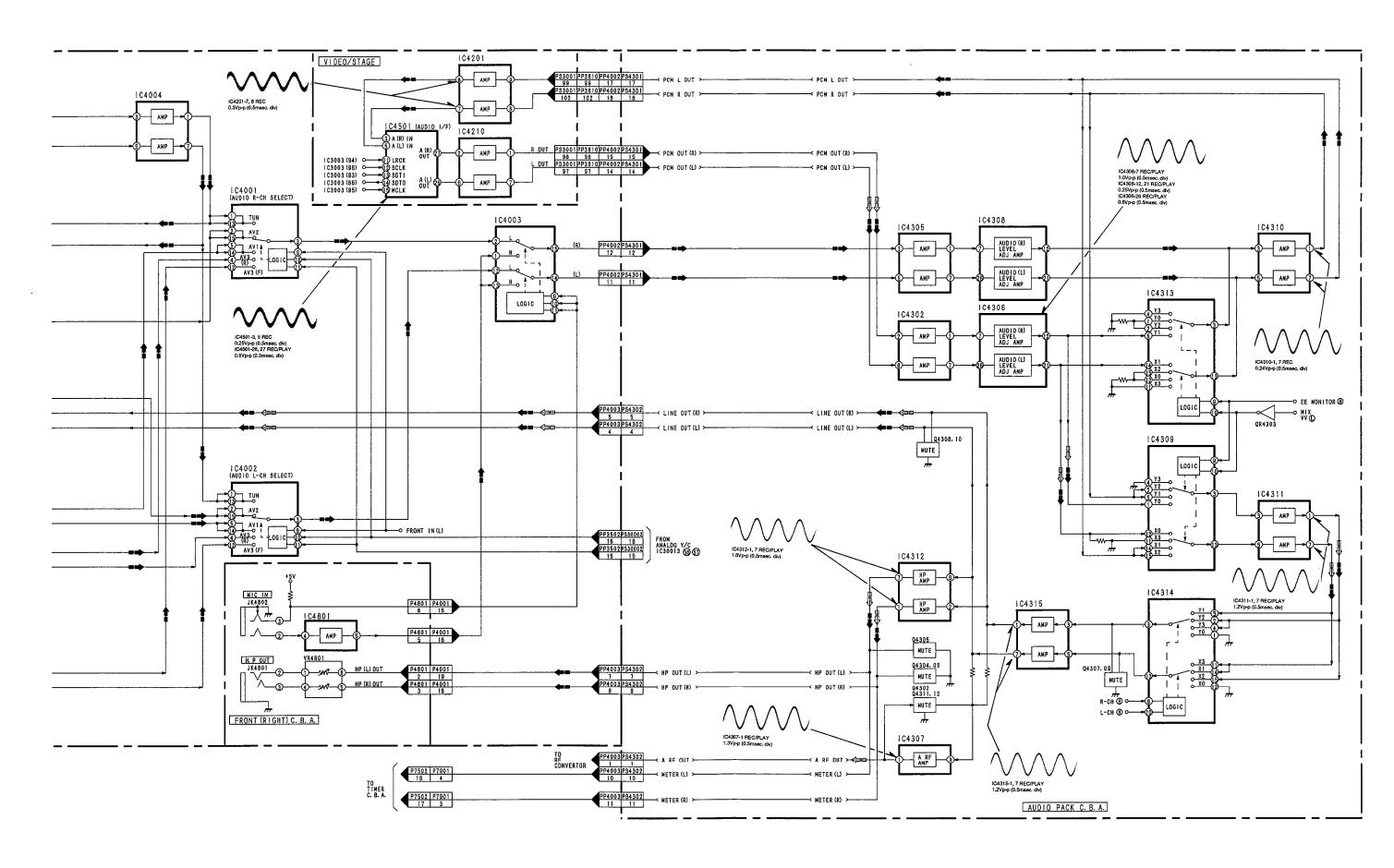




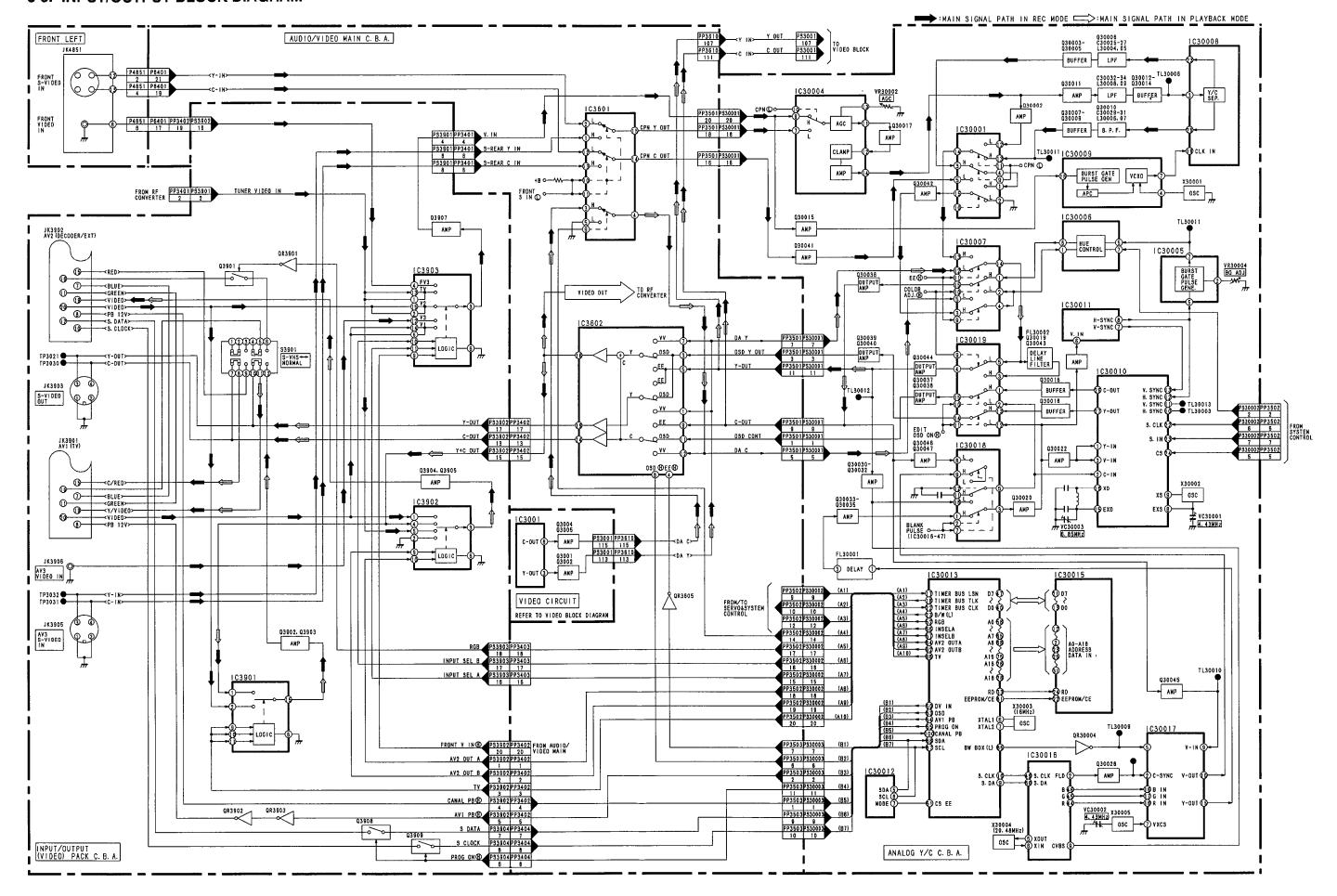
### 3-4. AUDIO BLOCK DIAGRAM

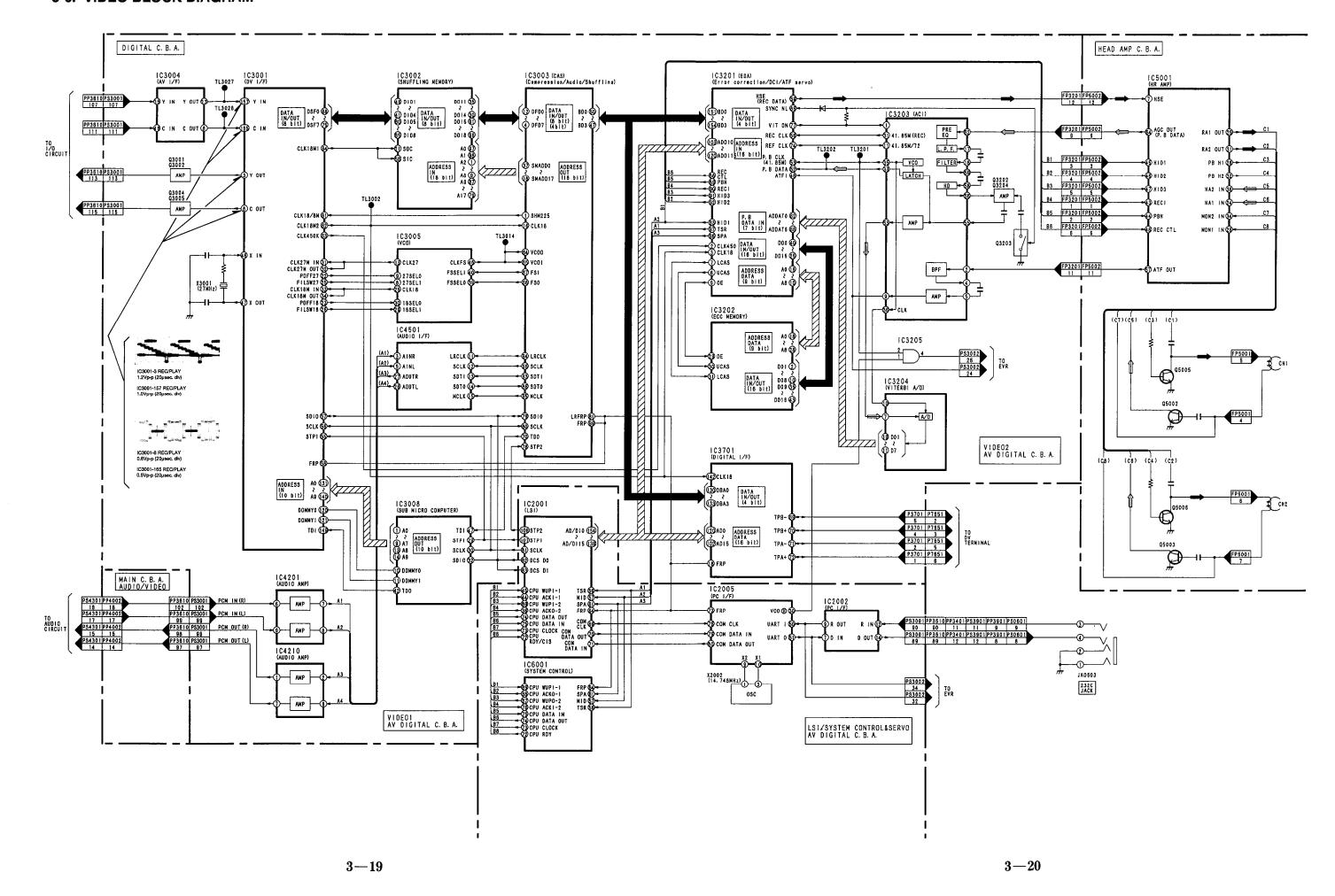




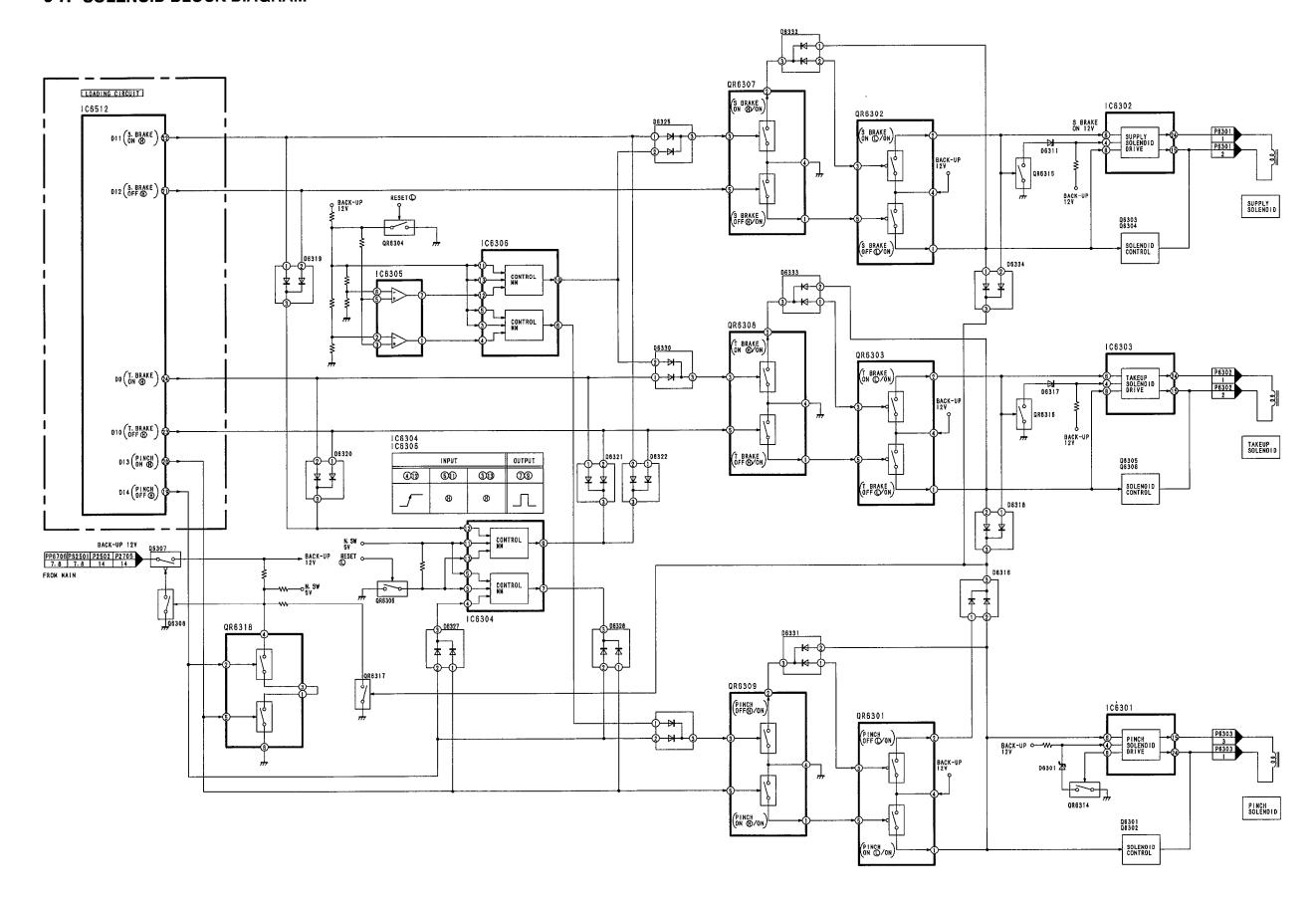


## 3-5. INPUT/OUTPUT BLOCK DIAGRAM

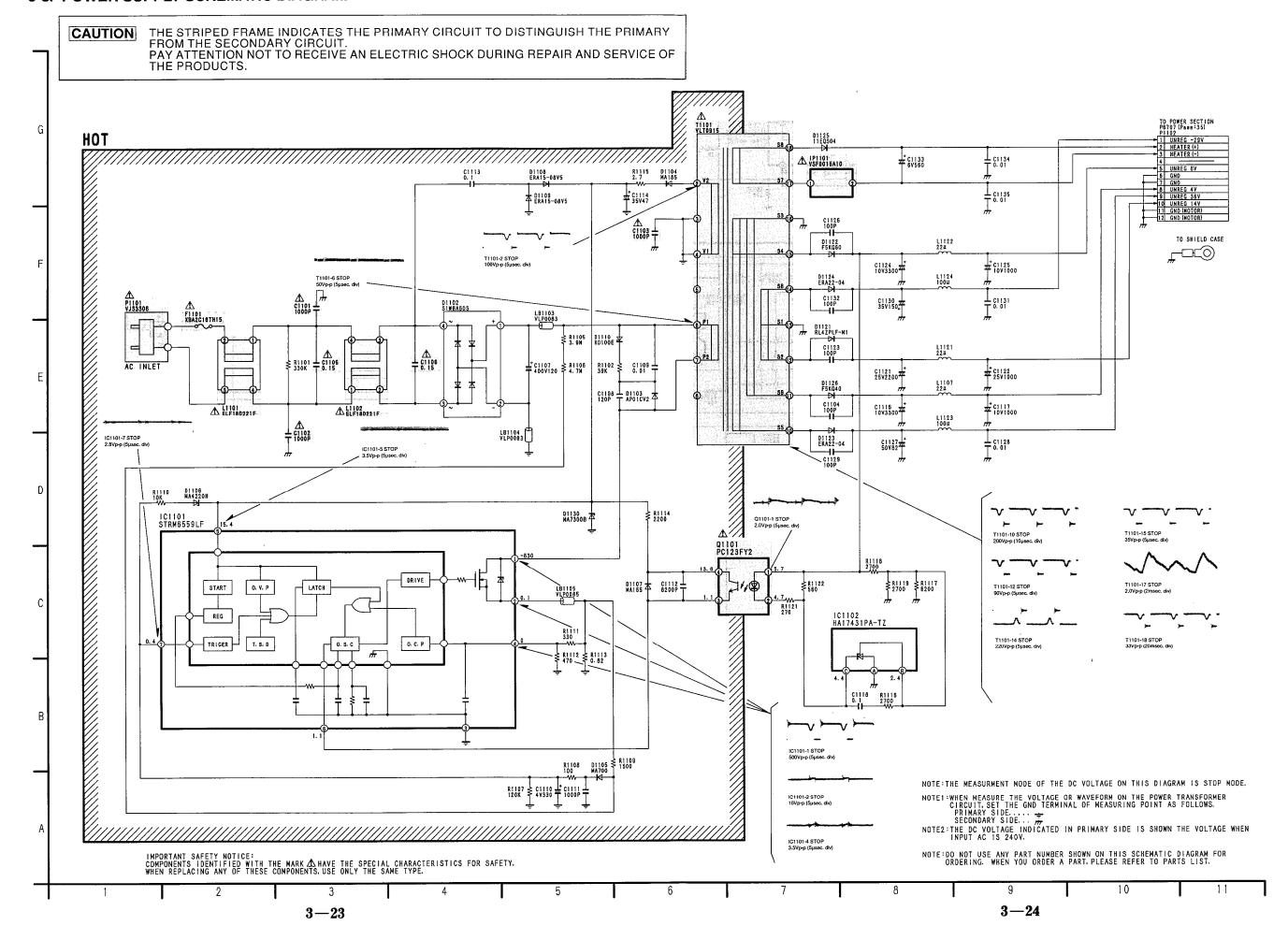




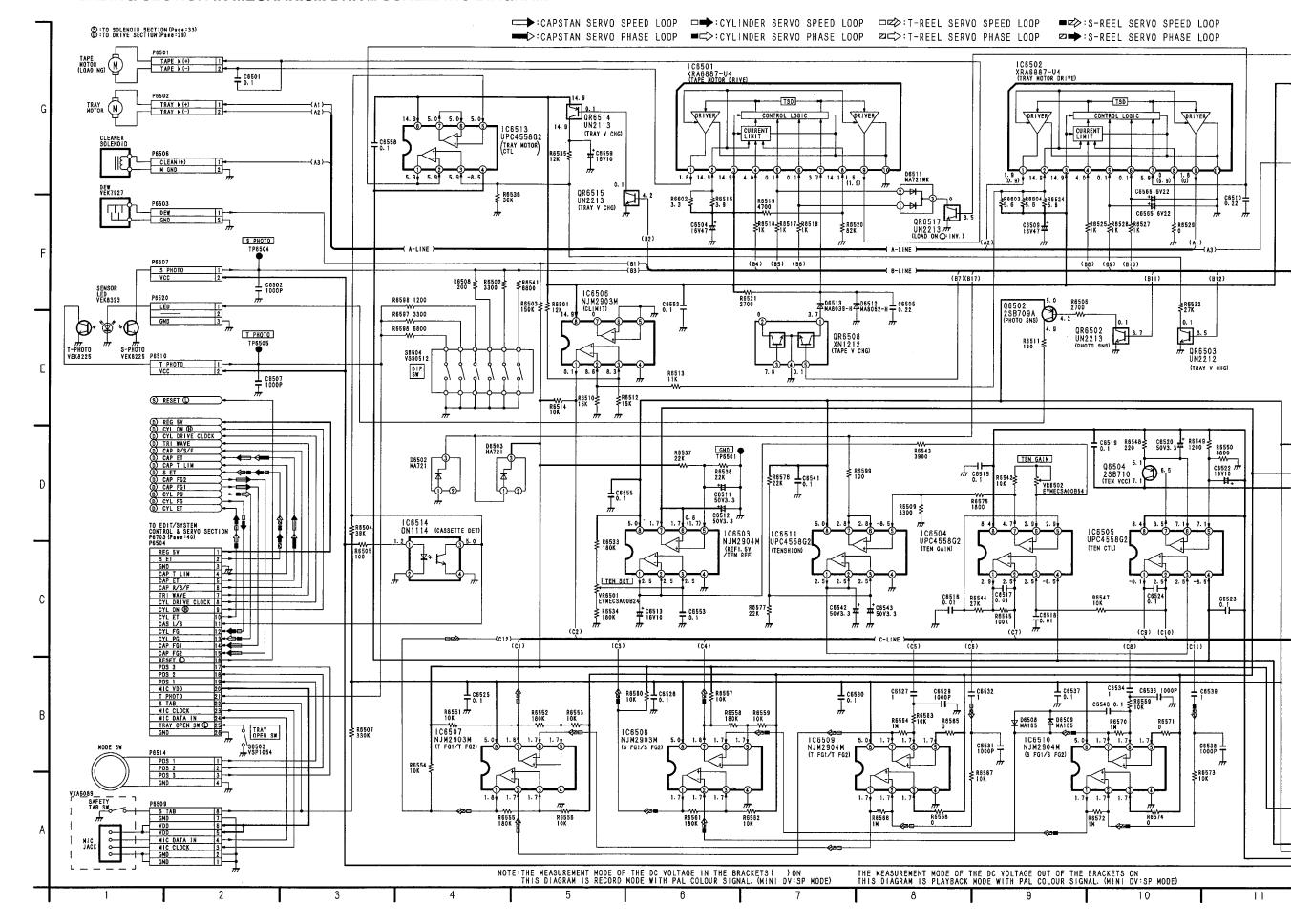
## 3-7. SOLENOID BLOCK DIAGRAM



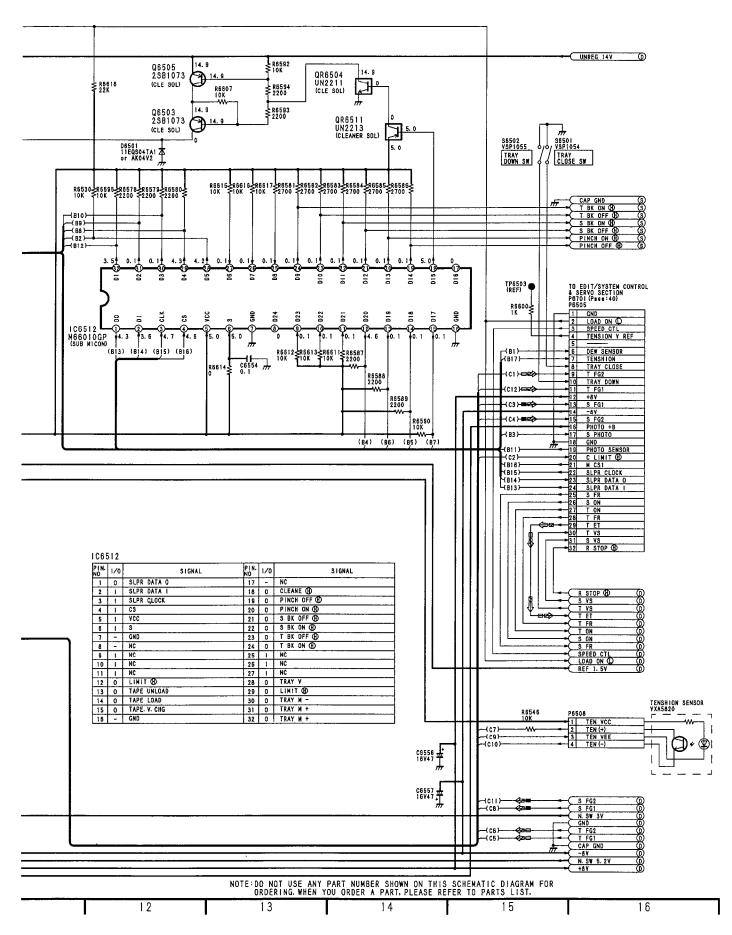
#### 3-8. POWER SUPPLY SCHEMATIC DIAGRAM

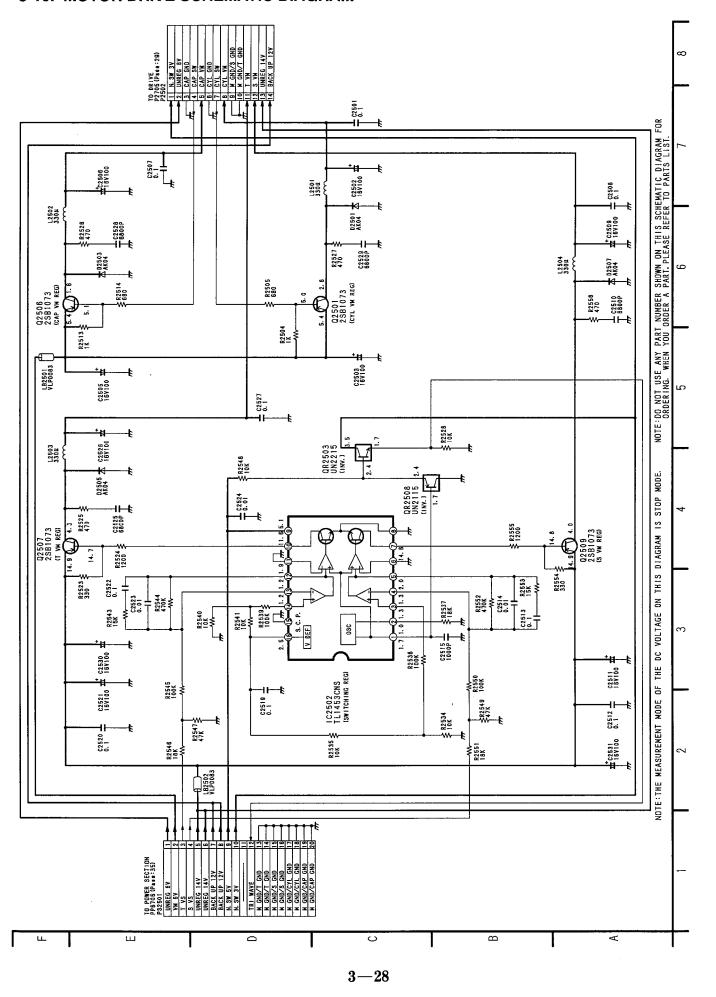


#### 3-9. LOADING SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM

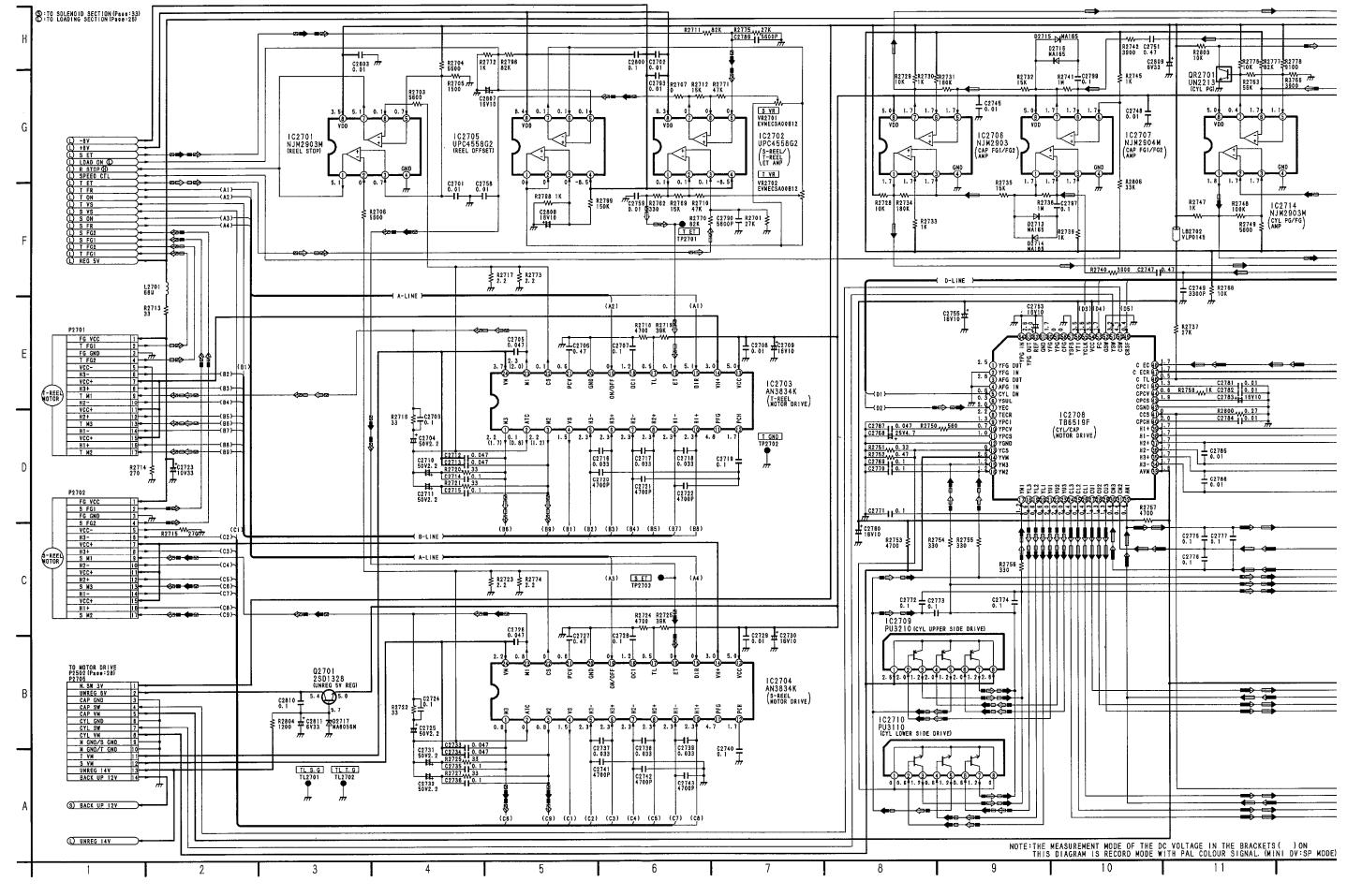


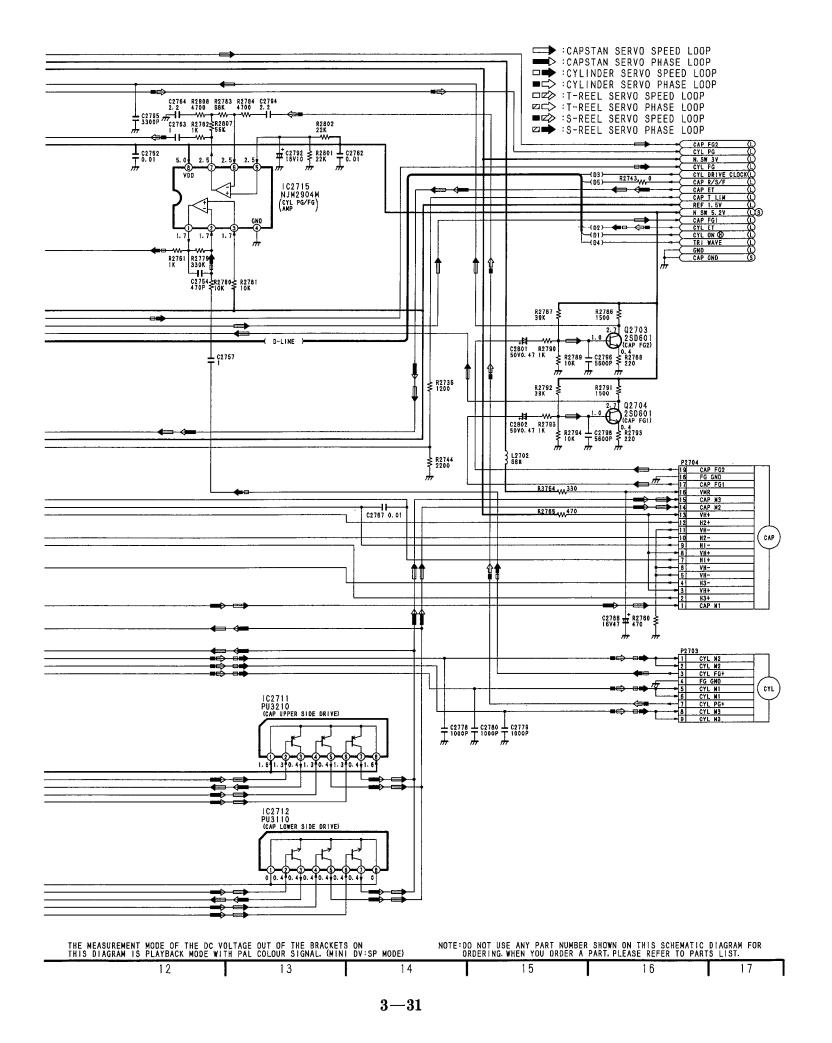
#### 3-10. MOTOR DRIVE SCHEMATIC DIAGRAM

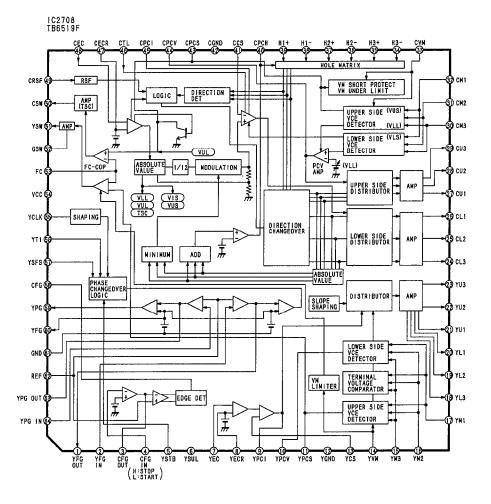


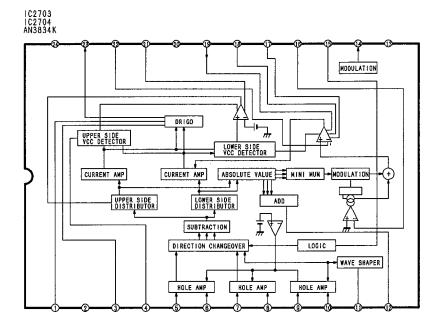


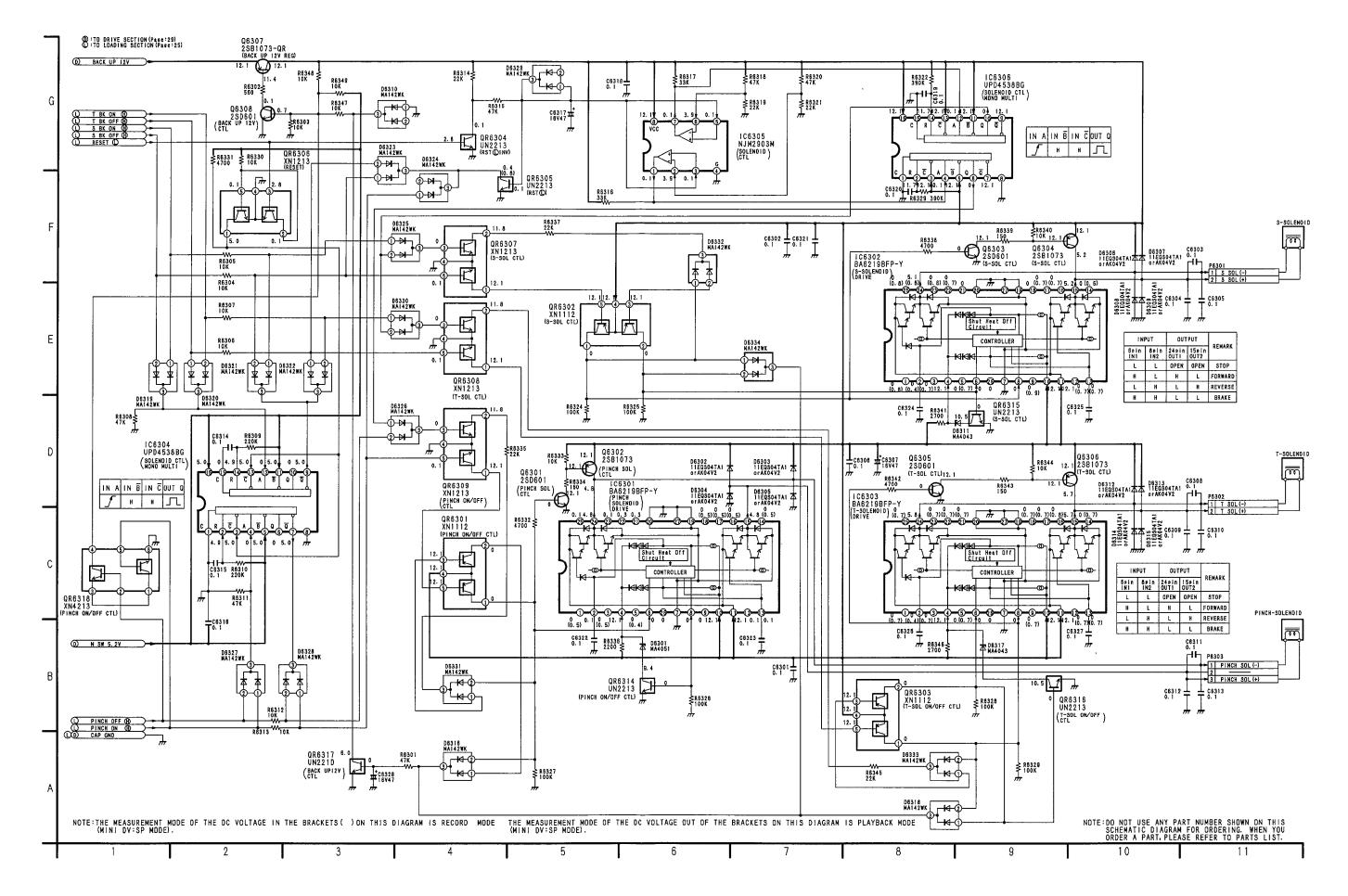
#### 3-11. DRIVE SECTION IN MECHANISM DRIVE SCHEMATIC DIAGRAM



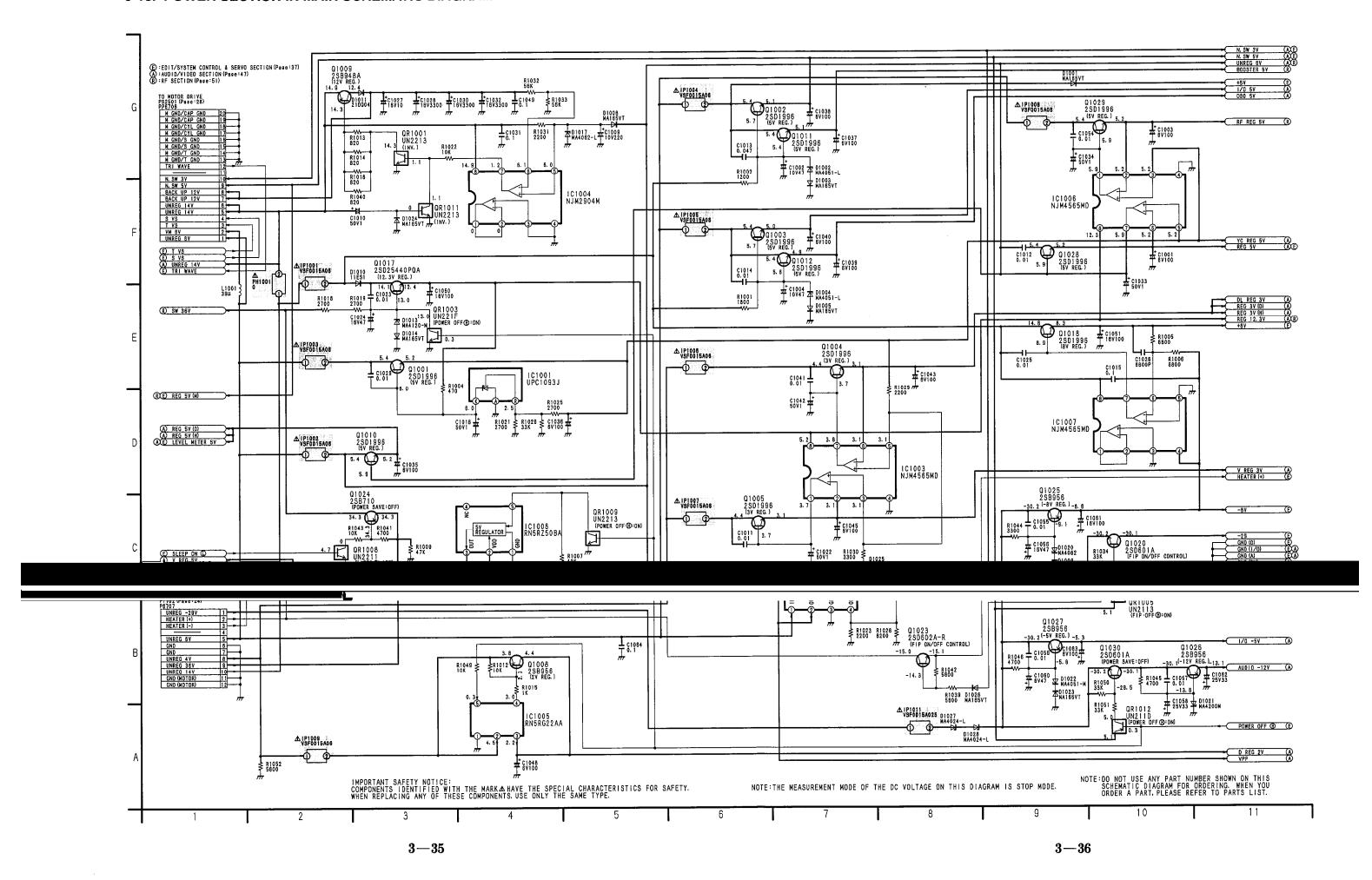




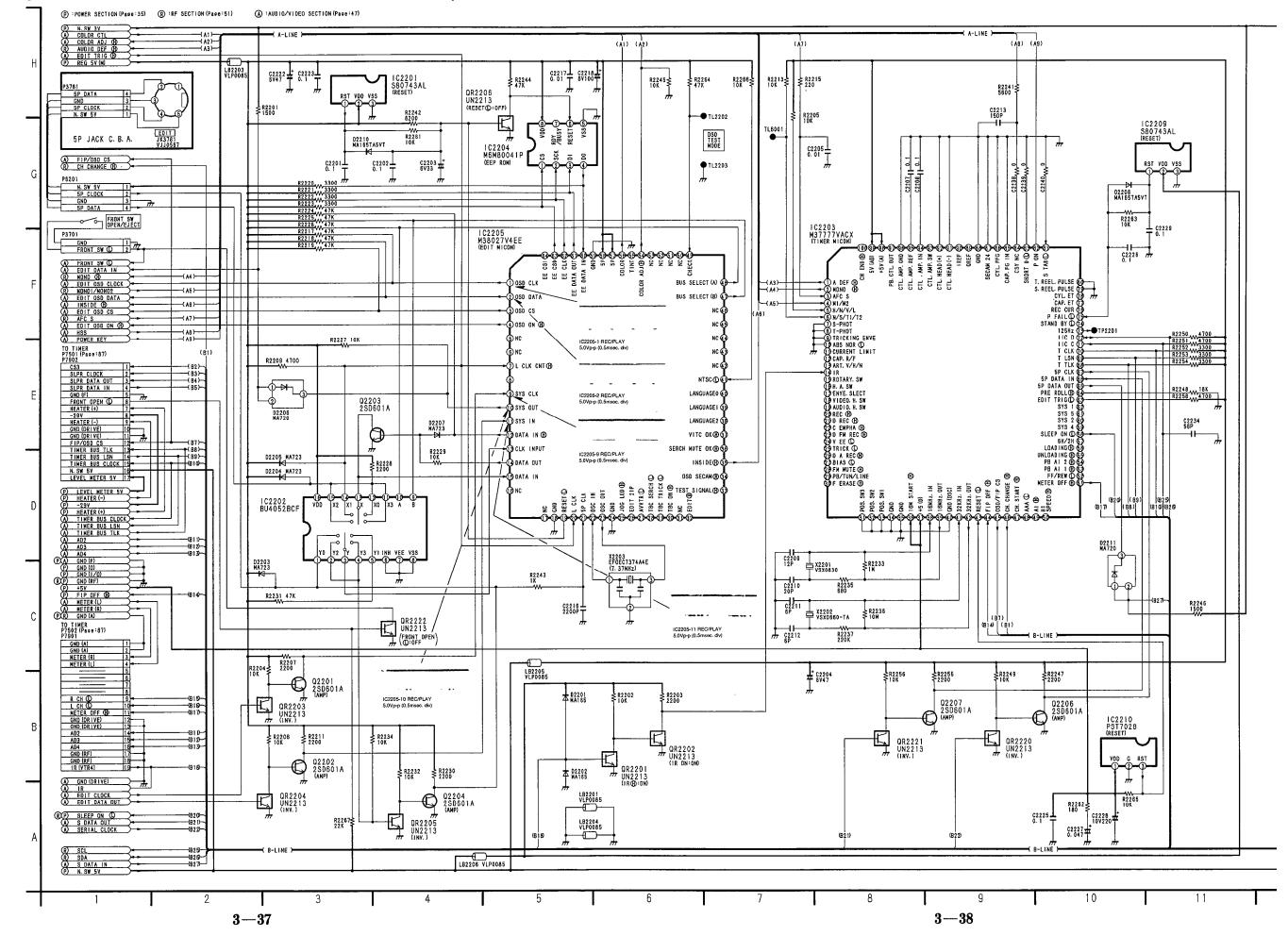


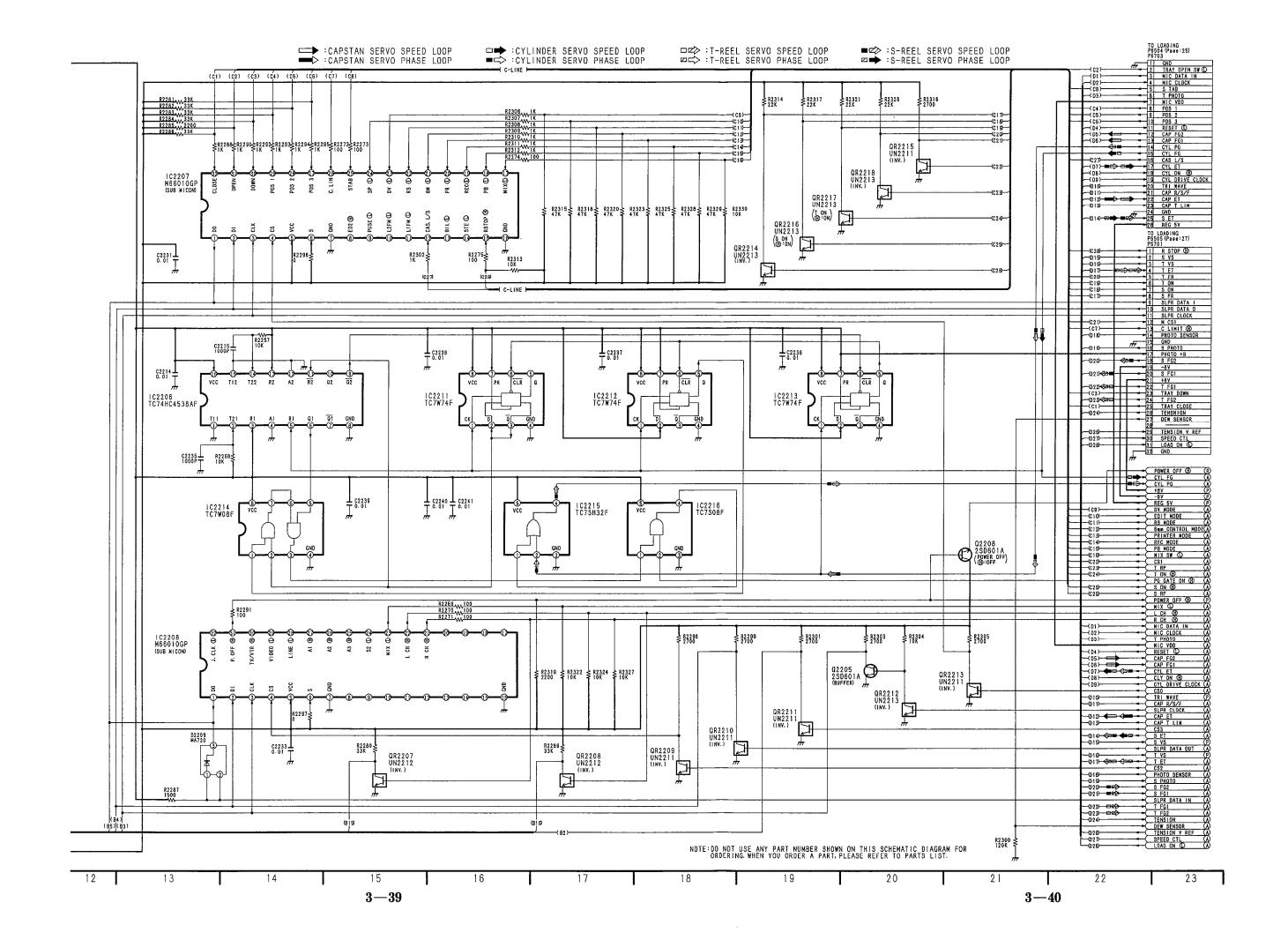


#### 3-13. POWER SECTION IN MAIN SCHEMATIC DIAGRAM



## 3-14. EDIT/SYSTEM CONTROL & SERVO SECTION IN MAIN, 5P JACK SCHEMATIC DIAGRAMS





# IC2203 (M37777VACX): TIMER MICON

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	AUDIO. DEF 🕀	0	DECODER IC reset signal				Linear Audio Rec Timingh
2	FORCE MONI (H)	0	U.K. Multi: Audio Detects Auto/off switch				H Output at timing of BIAS (H)
3	AFC (S)		AFC S CURVE				At begining of REC, Set BIAS (H) at
			Audio mode detection for display on the OSD  INPUT VOLTAGE DISPLAY  MORE THAN 4.2V NO DISPLAY	26	D.A. REC (H)	0	140msec. later of D.A. REC (H) set. At end of REC, release BIAS (H) at 140msec. former of D.A. REC (H) reset D. A. REC (H)
4	No/M1/Bil/M2/Ste	l	3.0 ~ 4.2 MONO1  2.0 ~ 3.0 BILINGUAL  0.8 ~ 2.0 MONO 1+2  LESS THAN 0.8V STEREO				BIAS (H) 140ms 1 140ms
				27	BIAS ①	0	At Linear Audio Rec, H/L output at timing of D.A. REC (H)
			CYLINDER (HIFI/NORMAL) SELECT  INPUT VOLTAGE CYLINDER HIFI/NORMAL  MORE THAN 4.2V LDD 6CH HIFI  3.0 ~ 4.2 UDD 6CH HIFI  UDD 2CH	28	FM. MUTE (H)	0	Audio Mute Output Power off, Head cleaning, Timer stand-by, VPS/PDC stand-by: H In VV mode, Except std tape run: H Former and later at EE/VV switch
5	L6/U6/U4/U2/U2L	ı	2.0~3.0 (NO LP) NORMAL  0.8~2.0 (LP) NORMAL	29	PB/TUN/LINE	0	Normal Audio Circuit Select Normal Audio P.B: H Normal Audio Rec/LINE mode: L
			LESS THAN 0.8V UDD 4CH NORMAL		=======================================		Normal Audio Rec/TUNER mode: M
				30	FULL. ERASE (H)	<u> </u>	FE Head OSC SW
***				31	POS. SW3	_!_	Markenial Desiina laurut
			MODE SELECT	32	POS. SW2	1	Mechanical Position Input
			INPUT VOLTAGE MODE	33	POS. SW1		
			MORE THAN 4.0V NORMAL	34	GND		<del>-</del>
6	Nor/Ser/T1/T2	1	2.5~4.0 SERVICE	35	GND		
			1.0 ~ 2.5 TEST 2	36	16M. START ⊕	_ !	16 MHz START Hight
			LESS THAN 1.0V TEST 1	37	5V (D)	1	5V (D)
				38	16MHz. IN	- !	16 MHz IN
				39	16MHz. OUT	0	16 MHz OUT
7	S-PHOT		Tape Supply Photo Sensor Detect	40	GND (OSC)	<u> </u>	
8	T-PHOT	ı	Tape Take-up Phote Sensor Detect	41	32KHz. IN	0	32 kHz IN
9	TRACKING ENVE	0	Auto Tracking/Video Enve Detect Input	42	32KHZ. OUT		32 kHz OUT
			for CVC	43	RESET ©	0	RESET ©
10	ABS. NORM (L)	ı	Lower output level Detect of FM audio	44	FIP L		FIP On/Off Select
11	CURRENT. LIMIT	0					FIP Driver/OSD Micon chip Select
12	REC CUR	0	REC CURR CTL for REC AI (EE)/				At Timing of Data transmission to FIP
	1		Picture VR Value out for P.B. AI (VV)	45	FIP/OSD CS	0	driver: L
13	ART. V/H/N	0					At Timing of Data transmission to OSD
14	REMOCON	1	REMOTE/DIGIRAL RINK INPUT	- 15	01101141127		Micon: H  Varing edge output of channel (H)
15	ROTARY. SW	0	ROTARY SW	46	CH CHANGE ⊕		Audio Carrier Auto Det start Edge output
16	H.A. SW	0	HEAD AMP SW	47	CH START 🖽	0	1
17	ENVE. SLECT	1	ENVELOPE SELECT	40	AAA 055 @		at Tuner preset  Output during audio IC auto adj.
18	VIDEO. H. SW	0	VIDEO HEAD SW	48	AAA OFF (H)	0	
19	AUDIO. H. SW	0	AUDIO HEAD SW	49	AI MES 🕀	0	Output during AI REC measurement
20	REC⊕	0	REC/P.B Select of video/Audio Circuit REC Mode: H	50	HALF WAVE (H)	0	(Fix carrier output)  Capstan Driver Full Wave/Half Wave select
21	D. REC ⊕	0	Video Rec Curr Timing (H. SW Sync.)				Output during Power Off
22	С. ЕМРНА 🕀	0	Video/FM Audio Rec. Curr Up (H. SW Sync)	51	P. OFF ⊕	0	H: at Power off, Timer stand-by, etc
23	D. FM. REC ⊕	0	FM Audio Rec Curr Timing (H. SW Sync.)				L: at Head cleaning, Timer confirmation, VPS/PDC stand-by, ACS
24	VIDEO. EE 🔘	0	Video EE/VV Select (H SW Sync.)	52	FF/REW ①	0	CTL signal Filter/Switch at FF/RES
ļ			EE: L, VV: H	53	PB AI1 (H)	0	PB ALCONTROL
			Trick Plag Mode Output Except Std tape	54	PB AI2 (H)	0	PB AI CONTROL
25	TRICK 🛈	0	run in	55	UNLOADING (H)	0	LOADING MOTOR CONTROL
			VV: L	56	LOADING 🕀	0	

3-41

					· · · · · ·		,
PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
			TAPE RUN SPEED OUTPUT	76	CAP. R/F	0	CAPSTAN REVERSE (H)/FORWARD (L)
57	SP 🕀	0	NTSC2H: H	77	CAP. ET	0	CAPSTAN ERROR TORQUE
			PAL3H: H	78	CYL. ET	0	CYLINDER ERROR TORQUE
58	SLEEP (L)	0	Super Power Save Mode Set Output (L)	79	S. REEL. PULSE		Pulse Input from Real Sensor
59	PAL-I/BG/DK	0	Broadcast System Output for video	80	T. REEL. PULSE	- 1	Pulse Input from Real Sensor
09	FAL-I/BG/DR	0	circuit control	81	STAB ①		Safety Tab Detect
60	SECAM/PAL	0	Broadcast System Output for video	01			Exist: L, Non: H
00	SEOAW/FAL	0	circuit control	82	POWER KEY (H)	1	Main Power ON/OFF Key Input
61	NTSC ①	0	Broadcast System Output for video	83	SHORT DN	- 1	OSC Trouble Detect of REC Mode
01	N130 C	U	circuit control	84	C SYNC	ı	COLOR SYNC
- 6	PAL/MESECAM	0	Broadcast System Output for video	85	CAP. FG	I	CAPSTAN FG
62	PALIMESECAM	O	circuit control	86	CYL. PFG	]	CYLINDER PG/FG
63	EDITTRIG (L)	I/O	Synchronizing Edit Control	87	SECAM24 (H)	-	26μ/24μ Head Select Input
64	PREROLL (B)	I/O	Sylicilionizing Earl Control	67	SECAIVIZ4 (1)	<u>'</u>	H: 24µ
65	5P/T2. DATA. OUT	0	Edit 5P/Serial Communication for Test	88	GND	_	<del></del>
66	5P/T2. DATA, IN	1	Edit 5P/Serial Communication for Test	89	OREF	0	REFERENCE OUT
67	5P/T2. CLOCK	0	Edit 5P/Serial Communication for Test	90	IREF	1	REFERENCE IN
	T-BUS/IC. OUT		OSD Micon/FIP Driver Serial	91	CTL. HEAD ()	1	CONTROL HEAD (-)
68	1-603/10.001	0	Communication	92	CTL. HEAD (+)		CONTROL HEAD (+)
	T-BUS/IC. IN		OSD Micon/FIP Driver Serial	93	CTL. AMP. SW	0	CONTROL AMP. SW
69	1-605/IC. IN	ı	Communication	94	CTL. AMP. IN	- 1	CONTROL AMP. IN
70	T-BUS/IC. CLK		OSD Micon/FIP Driver Serial	95	CTL. AMP. REF	i	CONTROL AMP. REFERENCE
70	1-805/IC. CLK	0	Communication	96	CTL. AMP. GND		CONTROL AMP. GND
71	IIC. CLOCK	0	Tuner/FM Audio IC Serial Communication	97	PB. CTL. OUT	0	PLAYBACK CONTROL OUT
72	IIC. DATA	I/O	Tuner/FM Audio IC Serial Communication	98	5V (A)		5V (A)
73	125Hz	0	Int. OSC Output for Main Clock Adj.	99	5V (AD)		5V (AD)
74	STANDBY (L)	0	Display Output at VTR Stand-by	100	CH END ⊕	1	Audio Carrier Auto Detect Completion
75	POWER FAIL (L)	1	Power Stoppage Detect.	100	OIT LIND (I)	1	Input at Tuner Preset

# IC2205 (M38027V4EE): EDIT MICON

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	P62	0	OSD CLK	33	P17/AD15	0	NC
2	P61	0	OSD DATA	34	P16/AD14	0	NC
3	P60	0	OSD CS	35	P15/AD13	0	INSIDE (B)
4	P57/INT3	0	OSD ON (H)	36	P14/AD12	0	NC
5	P56/PWM	0	NC	37	P13/AD11	0	NC
6	P55/CNTR1	0	NC	38	P12/AD10	0	NC
7	P54/CNTR0	-	L CLK CNT (H)	39	P11/AD9	0	NC
8	P53/Srdy2	0	NC	40	P10/AD8	0	NC
9	P52/SCLK2	1	SYS CLK	41	P07/AD7	ī	NTSC ①/PAL 🕀
10	P51/SOUT2	0	SYS OUT	42	P06/AD6	0	NC
11	P50/SIN2		SYS IN	43	P05/AD5	0	NC
12	P47/Srdy1	0	DATA INH	44	P04/AD4	0	NC
13	P46/CLK1	ı	CLK INPUT	45	P03/AD3	0	NC
14	P45/TXD	0	DATA OUT	46	P02/AD2	0	NC
15	P44/RXD	1	DATA IN	47	P01/AD1	0	BUS SELECT (B)
16	P43/INT2	0	NC	48	P00/AD0	0	BUS SELECT (A)
17	P42/INT1	0	NC	49	P37	1	CHECK (L)
18	CNVss		GND	50	P36	0	NC
19	RESET	_	RESET (L)	51	P35	0	NC
20	P41/INT0	1	L CLK	52	P34	0	NC
21	P40/INT4	ı	5P CLK	53	P33	0	NC
22	Xin		OSC IN	54	P32	0	COLOR ADJ 🕀
23	Xout	-	OSC OUT	55	P31/DA2	1	TINT
24	Vss	_	GND	56	P30/DA1		COLOR
25	P27	0	NC (JOG LED (H))	57	Vcc		5V
26	P26	0	NC (EDIT21P)	58	Vref		5V
27	P25	0	NC (AVVTR (L)	59	AVss		GND
28	P24	0	NC (TBC SERCH (L))	60	P67	1	EE DATA IN
29	P23	0	NC (TBC TRICK ©)	61	P66	0	EE DATA OUT
30	P22	0	NC (TBC ON)	62	P65	0	EE CLK
31	P21	0	NC	63	P64	0	EE CS0
32	P20	0	NC (EDIT (H))	64	P63	1	NC

# IC2207 (M66010GP): SUB MICON

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	I/O	EXPLANATION
1	DO	0	Serial Data Output	17	MIX ©	1	Audio Mixing ①
2	DI	1	Serial Data Input	18	PB 🗓	I	PLAY BACK (L)
3	CLK	1	Serial clock	19	REC (L)	1	REC (L)
4	CS	1	Chip select	20	PR 🗓	1	Preroll Connect (L)
5	VCC	- 1	VCC	21	8M 🗓	ı	8mm Connect ©
6	S	1	Power ON L	22	RS 🗓		RS232C Connect ①
7	GND	_		23	DV 🕒		DV Terminal Connect ①
8	ED2 ⊕	1	TV ⊞	24	5P 🗓		5P Terminal Connect 🗅
9	MUSE ①		Muse 🗓	25	S TAB ①	1	Safety Tab SW
10	L2FM ①	Ī	L2 Full Mode ①	26	CLIM	- 1	CURR. Limit
11	L1FM 🛈	1 .	L1 Full Mode (L)	27	P03	1	Position SW3
12	CAS L/S	1	Cassette Detect L cassette (B)/S cassette (C)	28	P02	Ĭ.	Position SW2
13	BIL 🛈	1	Bilingual (L)	29	P01		Position SW1
14	STE (L)	1	Stereo ①	30	DOWN	1	Tray Down ①
15	RSTOP ©	1	Reel Driver desfruction detect Input	31	OPEN	Ī	Tray Open ①
16	GND	—		32	CLOSE		Tray Close L

# IC2208 (M66010GP): SUB MICON

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	DO	0	Serial Data Output	17	NC		<del></del>
2	DI	1	Serial Data Input	18	NC	_	
3	CLK	1	Serial Data Clock	19	NC	_	_
4	CS	1	Chip Select	20	NC		<del>-</del>
5	VCC	ı	VCC	21	RCH⊕	0	R CH (H)
6	S		Power On ①	22	LCH ⊕	0	L CH ⊕
7	GND		<del></del> -	23	MIX 🗅	0	Mix ①
8	NC		<del></del>	24	S2 (L)	0	S Output Terminal widefull D
9	NC			25	A3 (H)	0	Input Select (f)
10	NC			26	A2 (H)	0	Input Select (H)
11	NC	_		27	A1 ℍ	0	Input Select ⊕
12	NC			28	LINE (L)	0	Line Input Select ©
13	NC			29	WIDE ①	0	S Output Terminal widefull ①
14	NC	_		30	TV/VTR ⊕	0	TV/VTR (H)
15	NC			31	P OFF (H)	0	Power off (H)
16	GND	—	<del>-</del>	32	J CLK (L)	0	Jast Clock (L)

#### EDIT/SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (Mini DV : SP MODE)

EDIT/SY	STE	:M C	ONT	ROL	& S	ERV	O IC	s DC	VOL	.TAG	iE CI	HAR	T (Mi	ni D	<b>V</b> : S	P MC	ODE)			
REF. NO.										IC2	201			,				,	,	
MODE	1	2	3														<u> </u>			
STOP	4.9	5.0	0					ļ .				ļ	ļ						<u> </u>	
PLAY	4.9	4.9	0		ļ										ļ		ļ			
REC	4.9	5.0	0					<u> </u>												
F.F	4.9	4.9	0		<b> </b>	<del> </del>				<b></b>			-		ļ		ļ			
REW	4.9	4.9	0						L		<u></u>	<u> </u>	İ	İ	l	l		i	l	Ц
REF. NO.		_	١,					_	_		202	10	40	1 11	1.5	10		ı	ı	
MODE	4.8	4.0	4.0	4.0	5 4.9	6	7	8	5.0	10 5.0	4.6	4.6	13 4.6	14 4.6	15 4.6	16 5.0	-			<del> </del>
PLAY	4.8	4.0	4.0	4.0	4.9	0	0	0	4.9	4.9	4.6	4.6	4.6	4.9	4.6	4.9	<u> </u>			$\vdash$
REC	4.8	4.0	4.0	4.0	4.9	0	0	0	5.0	5.0	4.6	4.6	4.6	4.9	4.6	5.0	<del> </del>			$\vdash$
F.F	4.8	4.0	4.0	4.0	4.9	0	0	0	4.9	4.9	4.6	4.6	4.6	4.9	4.6	4.9				
REW	4.8	4.0	4.0	4.0	4.9	0	0	0	4.9	4.9	4.6	4.6	4.6	4.9	4.6	5.0				
REF. NO.										IC2	203				·					
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	2.7	5.0	5.0	4.9	0	0	0	0	0	1.6	4.7	5.1	0	0	0.2	0	0	0
PLAY	0	0	2.7	4.9	4.9	4.9	0	0	0	0	0	1.6	0	5.1	0	0	0.1	0	0	0
REC	0	0	0.1	5.0	4.9	4.9	0	0	0	0	0	1.6	5.0	5.1	0	0	0.2	0	0	0
F.F	0	0	2.8	4.9	4.9	4.9	0	0	0	0	0	1.6	4.7	5.1	0	0	0.2	0	0	0
REW	0	0	2.7	4.9	4.9	4.9	0	0	0	0	0	1.6	4.7	5.1	0	0	0.2	0	0	0
REF. NO.	21	22	23	24	25	26	27	28	29	30	203 31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	4.7	0	0	4.7	0	0	0	0	0	0	0	4.7	4.7	2.2	2.1	0
PLAY	0	0	0	0	4.7	0	0	4.7	0	0	0	0	0	0	0	4.7	4.7	2.2	2.1	0
REC	0	0	0	0	4.7	0	0	4.7	0	0	0	0	0	0	0	4.7	4.7	2.2	2.2	0
F.F	0	0	0	0	4.7	0	0	4.7	0	0	0	0	0	0	0	4.7	4.7	2.2	2.1	0
REW	0	0	0	0	4.7	0	0	4.7	0	0	0	0	0	0	0	4.7	4.7	2.2	2.1	0
REF. NO.										IC2	203	·	l				1			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	1.3	1.3	4.7	0	2.4	0	0	0	0	0.5	0	4.7	0	0	0	0	4.7	4.7	0.4	0
PLAY	1.3	1.3		0	2.4	0	0	0	0	1.0	0	4.7	0	0	0	0	4.7	4.7	0.5	0
REC	1.3	1.3		0	2.3	0	0	0	0	0.3	0	4.7	0	0	0	0	4.7	4.7	0.5	0
F.F	1.3	1.3	1.3		2.4	0	0	0	0	0.2	0	4.7	0	0	0	0.2	4.7	4.7	0.2	0
REW	1.3	1.3	4.7	_	2.4	0	0	0	0	0.3	0	4.7	0	0	0	0	4.7	4.7	0.2	0
REF. NO.							67				203	70	70	74	75	70	77	70	70	
MODE STOP	61 0	62 0	63 5.0	64 0	65 3.6	66 4.2	67 4.5	68 4.4	69 4.4	70 4.4	71 2.9	72 2.9	73 2.4	74 4.7	75 5.0	76 0	77	78 4.0	79 0	80
PLAY	0	0	5.0	0	3.6	4.2	4.6	4.4	4.4	4.4	2.9	2.9	2.3	4.7	5.0	0	0	3.9	0	0
REC	0	0	5.0	0	3.6	4.1	4.6	4.4	4.4	4.4	2.9	2.9	2.3	4.7	5.0	0	0	3.9	0	0
F.F	0	0	4.9	0	3.6	4.3	4.5	4.4	4.4	4.4	2.9	2.9	2.3	4.7	5.0	0	0	4.0	0	0
REW	0	0	4.9	0	3.6	4.1	4.5	4.4	4.4	1.2	2.9	2.9	2.3	4.7	5.0	0	0	4.0	0	0
REF. NO.										IC2	203									
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0	0	0	4.2	0	0	0	0	2.5	2.5	0	0	0	2.5	2.5	0	2.5	5.0	5.0	0.2
PLAY	0	0	0	4.2	0	0	0	0	2.5	2.5	0	0	0	2.5	2.5	0	2.5	4.9	4.9	0.6
REC	0	0	0	4.2	0	0	0	0	2.5	2.5	0	0	0	2.4	2.5	0	2.5	5.0	5.0	0.6
F.F	0	0	0	4.2	0	0	0	0	2.5	2.5	0	0	0	2.5	2.5	0	2.5	4.9	4.9	0.3
REW NO	0	0	0	4.2	0	0	0	0	2.5	2.5	0	0	0	2.5	2.5	0	2.5	4.9	4.9	0.2
MODE REF. NO.	1	2	3	4	5	6	7	8		102	204		-							
STOP	5.0	5.0	5.0	5.0	0	0	5.0	5.0				<b></b>								
PLAY	5.0	5.0	5.0	4.9	0	0	4.9	5.0												$\dashv$
REC	5.0	4.9	5.0	4.9	0	0	4.9	5.0												
F.F	4.9	4.9	4.9	4.9	0	0	4.9	4.9					1							
REW	5.0	4.9	4.9	4.9	0	0	4.9	4.9												
REF. NO.										IC2	205						,			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.7	4.6	4.4	0	0	0	4.9	0	4.7	4.8	3.8	0.5	4.0	0.3	4.6	0	0	0	4.5	5.0
PLAY	4.7	4.6	4.4	0	0	0	4.9	0	4.7	4.7	3.9	0.5	4.0	0.3	4.6	0	0	0	4.5	4.9
REC	4.7	4.6	4.4	0	0	0	5.0	0	4.7	4.7	3.9	0.4	4.0	0.3	4.6	0	0.1	0	4.5	5.0
F.F	4.7	4.6	4.4	0	0	0	4.9	0	4.7	4.8	3.9	0.4	4.0	0.3	4.6	0	0	0	4.5	4.9
REW	4.7	4.6	4.4	0	0	0	4.9	0	4.7	4.8	3.7	0.4	4.0	0.3	4.6	0	0	0	4.5	4.9
REF. NO.	01	00	00	04	OE.	06	07	00	20		205	20	20	9.4	OE.	26	97	20	20	40
MODE STOP	21 4.8	22	23	24 0	25 0	26 0	27 5.0	28 5.0	29 5.0	30 5.0	31	32	33 0	34 0	35 0	36 0	37 0	38	39	40 0
PLAY	4.8	2.1	2.3	0	0	0	0	5.0	4.9	5.0	0	0	0	0	0	0	0	0	0	0
REC	4.8	2.0	2.3	0	0	0	5.0	5.0	5.0	5.0	0	0	0	0	0	0	0	0	0	0
F.F	4.8	2.1	2.3	0	0	0	4.9	4.9	4.9	4.9	0	0	0	0	0	0	0	0	0	0
REW	4.8	2.1	2.3	0	0	0	0.4	4.9	4.9	4.9	0	0	0	0.5	0	0	0	0	0	0
	,,,,	1		_ <u>~</u> _	_ <u>`</u> _		<b>√.</b> -7	1.0	٠.٠	7.0	<u>~</u>						<u> </u>	_ <u>`</u> _		

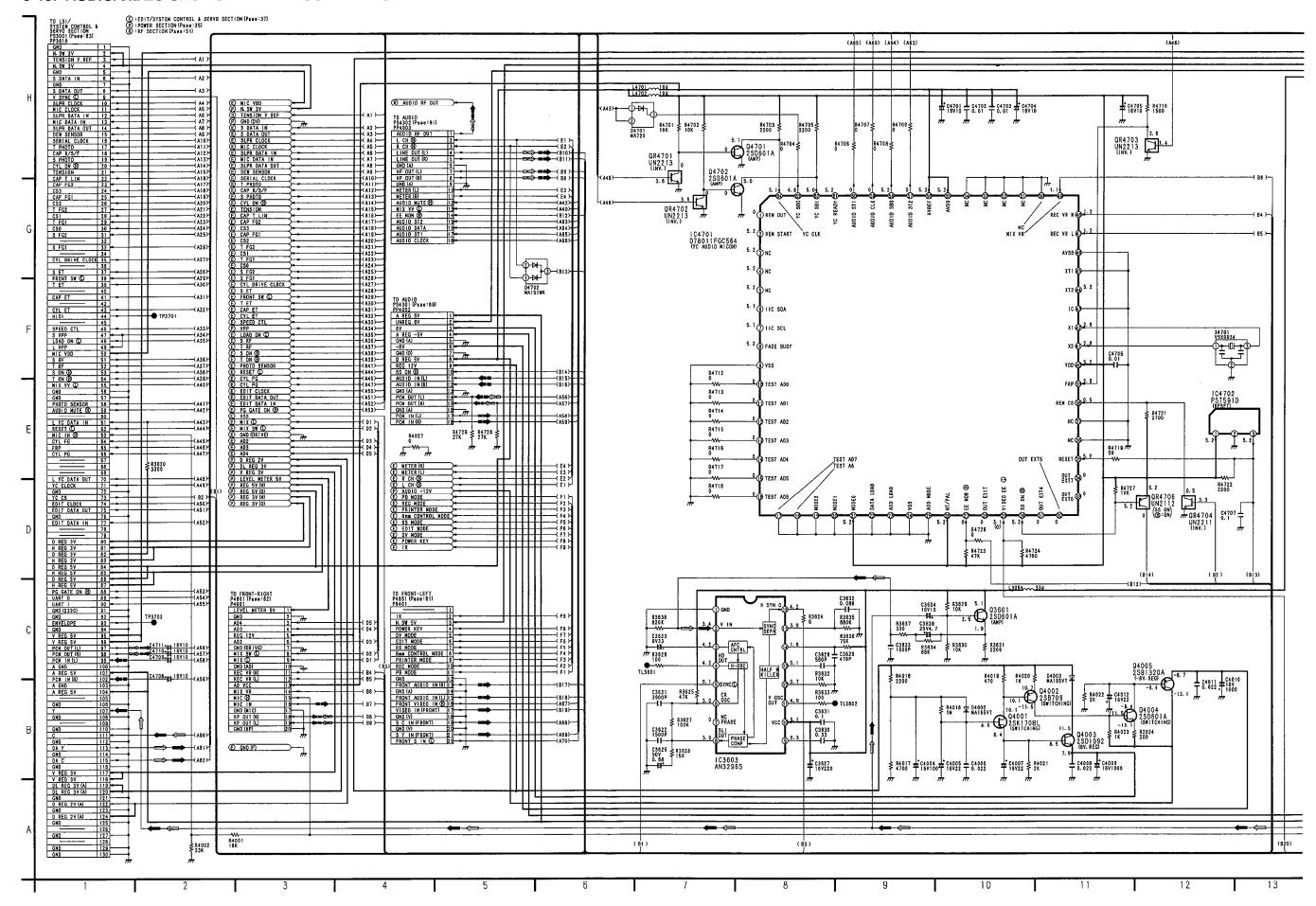
												·· ·-· ·-								
REF. NO.	<u> </u>	- 40	T	1	15	1 40	1 47	1 40	1 40		2205	T 50			55		1 53		T 50	
MODE \	5.0	42	43	0	45	46	5.0	48 5.0	4.9	50	51	52 0	53	54 0	55 2.5	56 2.5	57 5.0	5.0	59 0	60 5.0
PLAY	4.9	0	0	0	0	0	5.0	4.9	4.9	0	0	0	0	0	2.5	2.5	4.9	5.0	0	4.9
REC	4.9	0	0	0	0	0	5.0	5.0	4.9	0	0	0	0	0	2.5	2.5	4.9	4.9	0	5.0
F.F	4.9	0	0	0	0	0	4.9	4.9	4.9	0	0	0	0	0	2.5	2.5	4.9	4.9	0	5.0
REW	4.9	0	0	0	0	0	5.0	4.9	4.9	0	0	0	0	0	2.5	2.5	5.0	5.0	0	4.9
REF. NO.				т	,				,	IC	2205			ı		,	т		F	
MODE	61	62	63	64	ļ		-	-		-							ļ			
STOP PLAY	5.0 4.9	5.0	5.0 4.9	0.6	-	<b>-</b>	-			ļ			-	-					<del> </del>	$\vdash$
REC	5.0	5.0	5.0	0.3			<b> </b>								-		-	<del> </del>		<del>   </del>
F.F	4.9	4.9	4.9	1.7		<u> </u>		<u> </u>		l					1					
REW	4.9	4.9	4.9	1.2														-		
REF. NO.						,	,			IC2	206	,	,				,			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	3.4	3.4	0	3.4	0	3.4	0	3.4	0	0	0	3.4	3.4	0	3.4				$\vdash$
PLAY REC	0	3.4	3.4	0	1.8	0	3.4	0	3.4	0	0	0	3.4	3.4	0	3.4	<u> </u>			
F.F	0	3.4	3.4	0	1.8	0	3.4	0	3.4	0	0	0	3.4	3.4	0	3.4		_		
REW	0	3.4	3.4	0	1.8	0	3.4	0	3.4	0	0	0	3.4	3.4	0	3.4				
REF. NO.				1							207									
MODE	1	2	3	4	5	6	7	. 8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.3	3.6	4.7	4.4	5.1	5.1	0	0.7	0.7	0.2	0.2	4.9	0.7	0.7	5.1	0	5.1	5.0	0	5.0
PLAY	4.3	3.6	4.7	4.4	5.1	5.1	0	0.7	1.1	1.1	1.0	4.9	1.1	0.9	1.1	0	5.1	1.1	0	5.0
REC	4.3	3.6	4.7	4.5	5.1	5.1	0	1.3	1.2	1.2	1.2	4.9	1.2	1.2	1.2	0	5.1	5.0	0	5.0
F.F REW	4.3 4.3	3.6	4.7	4.5	5.1	5.1 5.1	0	2.3	2.2	1.0	1.0	4.9 4.9	1.0	1.0	5.1 5.1	0	5.1 5.1	5.0 5.0	0	5.0 5.0
REF. NO.	4.3	3.0	4.7	4.4	1 0.1	0.1		2.2	2.2		207	4.8	1.1	1.1	J.1		J.1	0.0		3.0
MODE	21	22	23	24	25	26	27	28	29	30	31	32				ļ				
STOP	5.0	0	5.0	5.0	0	0	5.0	5.0	0	5.0	5.1	0								
PLAY	5.0	0	5.0	5.0	0	0	5.0	5.0	0	1.1	5.1	0								
REC	5.0	0	5.0	5.0	0	0	5.0	5.0	0	5.0	5.1	0								
F.F	5.0	0	5.0	5.0	0	0	5.0	5.0	1.0	5.0	5.1	0								
REW REF. NO.	5.0	0	5.1	5.0	0	0	5.0	5.0	0	5.0	5.1 208	0								
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.3	3.6	4.7	4.6	5.1	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLAY	4.3	3.6	4.7	4.6	5.1	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REC	4.3	3.6	4.7	4.6	5.1	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F.F	4.3	3.6	4.7	4.5	5.1	5.1	0	0	0	0	0	0	0	0	5.1	0	5.1	5.0	0	5.0
REW	4.3	3.6	4.7	4.5	5.1	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REF. NO.	04	00	- 00	- 04	05	00	07	20	29	r	208	20					Γ			
MODE STOP	21 3.5	22 3.5	23 5.1	0.1	25 0	26 0	0.2	28 0	0	30	0.1	32 0.1								
PLAY	3.5	3.5	5.1	0.1	0	0	0.2	0	0	0	0.1	0.1								
REC	3.5	3.5	5.1	1.2	0	0	1.9	0	0	0	0.1	1.8								
F.F	5.0	0	5.1	0	0	0	0.1	0	0	0	0.1	0								
REW	3.5	3.5	5.1	0	0	0	0	0	0	0	0.1	0				<u> </u>	L			
REF. NO.			-	·	IC2	209									IC2	210				
MODE STOP	5.1	5.1	3 0								4.7	0	3 4.7			<b></b>				
PLAY	5.1	5.1	0		<del>                                     </del>					<del>                                     </del>	4.7	0	4.7							$\vdash$
REC	5.1	5.1	0								4.7	0	4.7							
F.F	5.1	5.1	0								4.7	0								
REW	5.1	5.1	0								4.7	0	-							
REF. NO.					_	211										212				
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP PLAY	1.8	3.4	3.4	0	0	0_	3.4	3.4			3.4 1.8	3.4	3.4	0	0	2.1	3.4	3.4		
REC	1.8	2.6	2.6	0	0.8	2.1	3.4	3.4			1.8	3.4	2.1	0	1.3	1.2	3.4	3.4		
F.F	1.8	2.6	2.6	0	0.8	2.1	3.4	3.4			1.8	3.4	2.1	0	1.3	2.1	3.4	3.4		-
REW	1.8	2.6	2.6	0	0.8	2.1	3.4	3.4			1.8	3.4	2.1	0	1.3	2.0	3.4	3.4		
REF. NO.						213									IC2	214				
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	0.1	3.4	3.4	0	0	3.4	3.4	3.4			0	3.4	0	0	0	0	0	3.4		
PLAY	0.4	3.4	1.3	0	2.1	3.4	3.4	3.4			1.3	2.6	0	0	0	0.4	0.4	3.4		$\longrightarrow$
REC	0.4	3.4	1.3	0	2.1	3.4	3.4	3.4			1.3	2.6	0	0	0	0.4	0.4	3.4		
I			1.3	ı U I	2.1	3.4	J.4	3.4			1.3	2.6	U	0	U	0.4	0.4	0.4		
F.F REW	0.4	3.4	1,4	0	2.0	3.4	3.4	3.4			1.3	2.6	0	0	0	0.4	0.4	3.4	- 1	

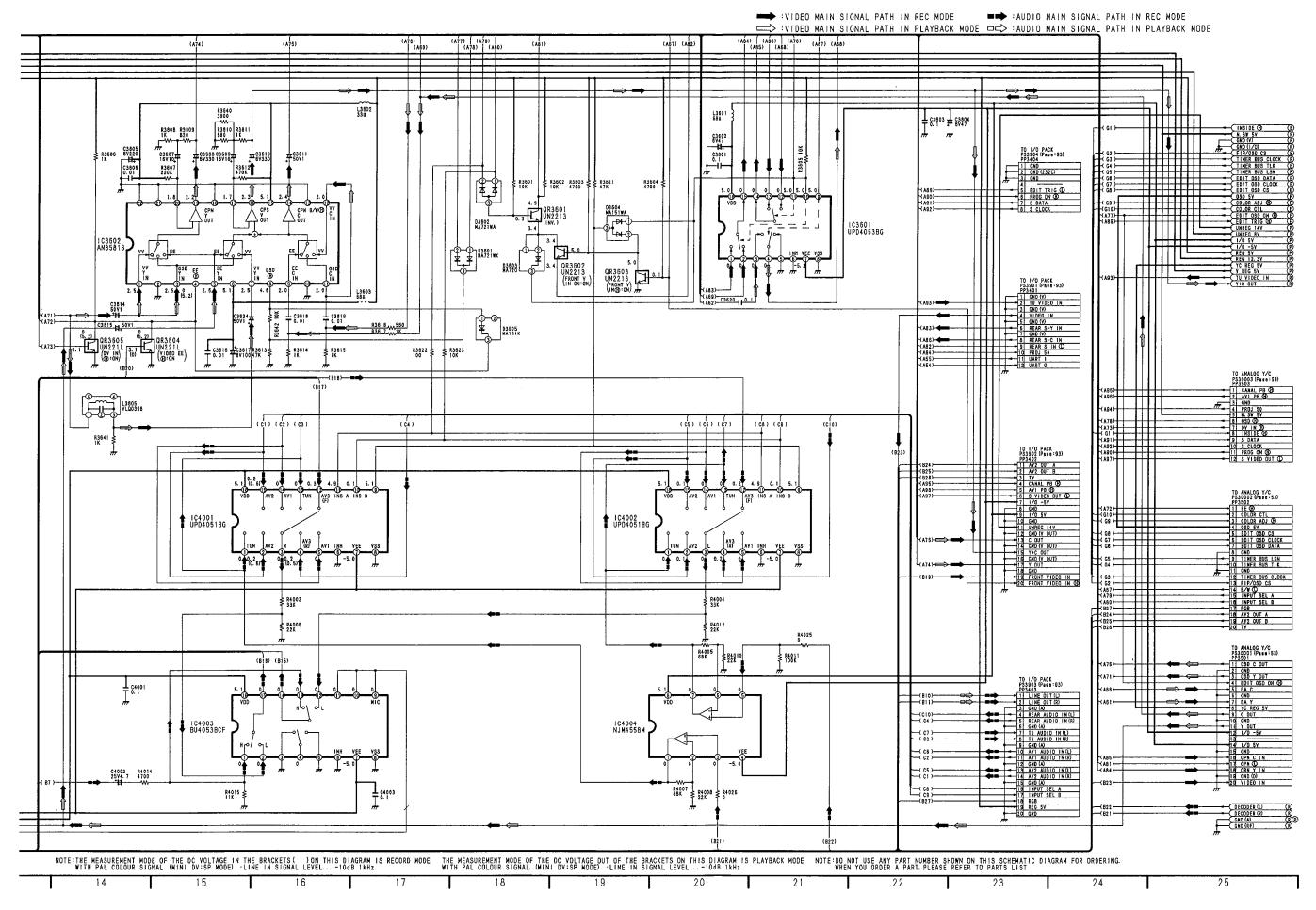
REF. NO.					IC2	215	"	 					IC2	216		
MODE	1	2	3	4	5				1	2	3	4	5			
STOP	0	0.1	0	0	3.4				0	0	0	0	3.4			
PLAY	0	0.4	1.3	0.3	3.4				0	0	0	0	3.4			
REC	0	0.4	0	0.3	3.4				0	0	0	0	1.0			
F.F	0	0.4	0	0.3	3.4				0	0	0	0	3.4			
REW	0	0.3	0	0.3	3.4				0	3.7	0	0	3.4			

# EDIT/SYSTEM CONTROL & SERVO TRS DC VOLTAGE CHART (Mini DV : SP MODE)

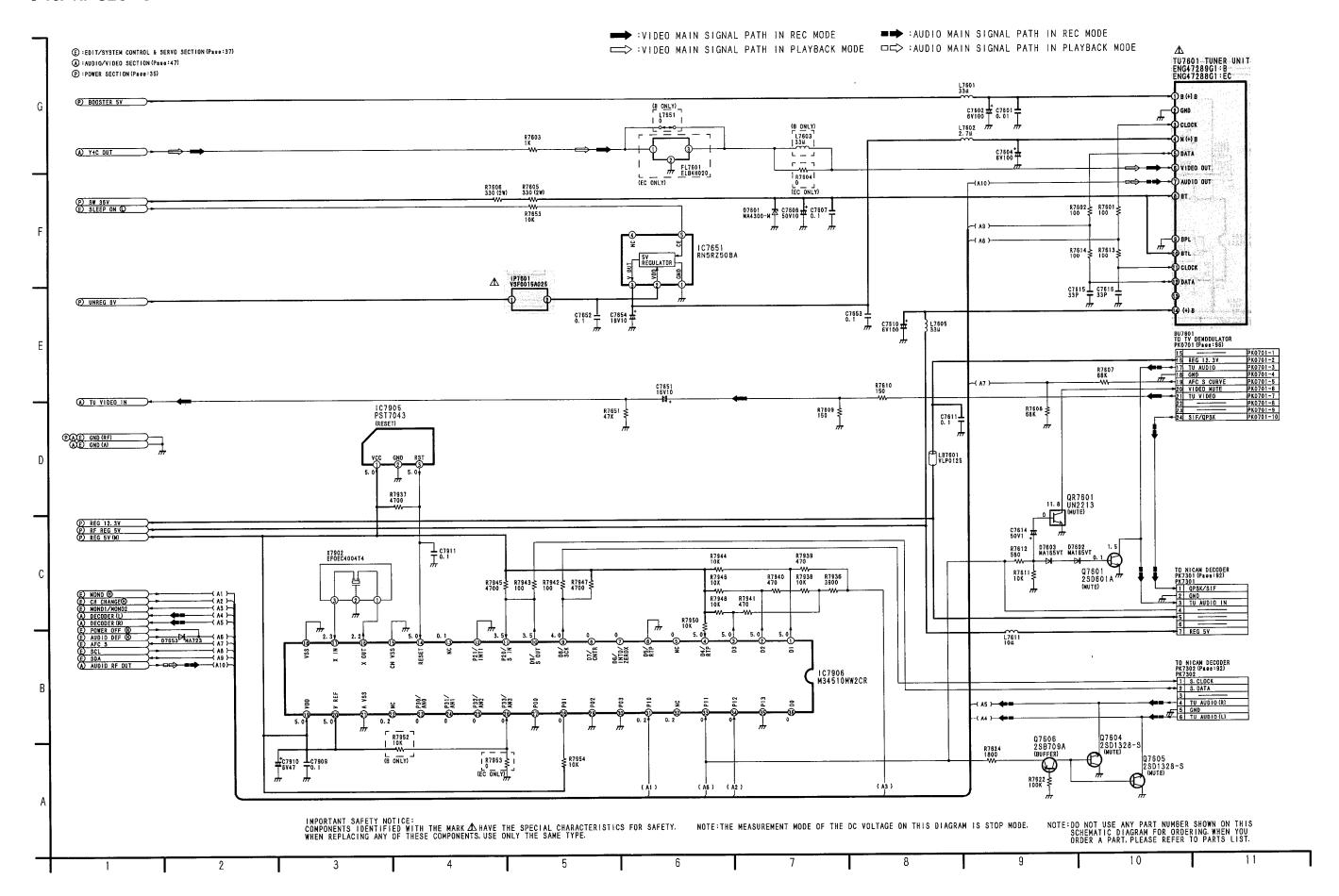
REF. NO.		Q2201			Q2202			Q2203			Q2204			Q2205			Q2206	
MODE	Е	С	В	E	С	В	Е	С	В	Е	С	В	Е	С	В	E	С	В
STOP	0	4.7	0	0	3.8	0.1	0	4.6	0	0	4.8	0	0	4.7	0	0	4.5	0
PLAY	0	4.7	0	0	3.9	0.1	0	4.6	0	0	4.8	0	0	4.7	0	0	0	4.5
REC	0	4.7	0	0	3.8	0.1	0	4.6	0	0	4.8	0	0	4.7	0	0	4.6	0
F.F	0	4.7	0	0	3.8	0.1	0	4.6	0	0	4.8	0	0	4.7	0	0	4.5	0
REW	0	4.7	0	0	3.9	0.1	0	4.6	0	0	4.8	0	0	4.7	0	0	4.5	0
REF. NO.		Q2207																
MODE	E	С	В															
STOP	0	4.2	0.1															
PLAY	0	4.1	0.1															
REC	0	4.2	0.1															
F.F	0	4.2	0.1															
REW	0	4.2	0.1											ļ				
REF. NO.		QR2201			QR2202			QR2203			QR2204			QR2205			QR2206	3
MODE	Е	С	В	Ε	С	В	E	С	В	Е	С	В	E	С	В	E	С	В
STOP	0	0	3.5	0	5.1	0	0	0	3.4	0	0.1	2.8	0	0	4.0	0	0	4.5
PLAY	0	0	3.5	0	5.1	0	0	0	3.4	0	0.1	2.9	0	0	4.0	0	4.5	0
REC	0	0	3.5	0	5.1	0	0	0	3.4	0	0.2	2.8	0	0	4.0	0	0	4.5
F.F	0	0	3.5	0	5.1	0	0	0	3.4	0	0.1	2.9	0	0	4.0	0	0	4.5
REW	0	0	3.5	0	5.1	0	0	0	3.4	0	0.1	2.9	0	0	4.0	0	0	4.5
REF. NO.		QR2207	,		QR2208			QR2209	)		QR2210	1		QR2211			QR2212	2
MODE	Е	С	В	E	O	В	Е	O	В	E	С	В	Е	С	В	Е	С	В
STOP	0	0	3.5	0	0	3.5	0	4.5	1.0	0	3.6	1.1	0	4.5	0.9	0	0	3.3
PLAY	0	0	3.5	0	0	3.5	0	4.5	1.0	0	3.6	1.0	0	4.5	0.9	0	0	3.3
REC	0	0	3.5	0	0	3.5	0	4.6	1.0	0	3.6	1.1	0	4.5	0.9	0	0	3.3
F.F	0	0	3.5	0	0	3.5	0	4.5	1.0	0	3.6	1.0	0	4.5	0.9	0	0	3.3
REW	0	0	3.5	0	0	3.5	0	4.5	1.0	0	3.6	1.1	0	4.5	0.9	0	0	3.3
REF. NO.		QR2213			QR2214			QR2215	i		QR2216	;		QR2217	,		QR2218	3
MODE	E	С	В	Е	С	В	ш	С	В	ш	С	В	E	С	В	Е	С	В
STOP	0	4.4	0.5	0	0	3.7	0	4.6	0.4	0	5.1	0	0	5.1	0	0	5.0	0
PLAY	0	4.4	0.5	0	0	3.7	0	4.5	0.4	0	0	3.7	0	0	3.7	0	5.0	0
REC	0	4.4	0.5	0	0	3.7	0	4.6	0.4	0	0	3.7	0	0	3.7	0	5.1	0
F.F	0	4.4	0.5	0	0	3.7	0	4.5	0.4	0	0	3.7	0	0	3.7	0	5.0	0
REW	0	4.4	0.5	0	0	3.7	0	4.6	0.4	0	0	3.7	0	0	3.7	0	5.0	0
REF. NO.		QR2219	)		QR2220			QR2221			QR2222							
MODE	E	С	В	E	С	В	Е	С	В	Е	С	В						
STOP	0	0	4.7	0	0	3.2	0	0.1	3.1	0	0	3.5						
PLAY	0	0	4.7	0	0	3.2	0	0.1	3.1	0	0	3.5						
REC	0	0	4.7	0	0	3.2	0	0.1	3.1	0	0	3.5						
F.F	0	0	4.7	0	0	3.2	0	0.1	3.2	0	0	3.5						
REW	0	0	4.7	0	0	3.2	0	0.1	3.1	0	0	3.5						

#### 3-15. AUDIO/VIDEO SECTION IN MAIN SCHEMATIC DIAGRAM



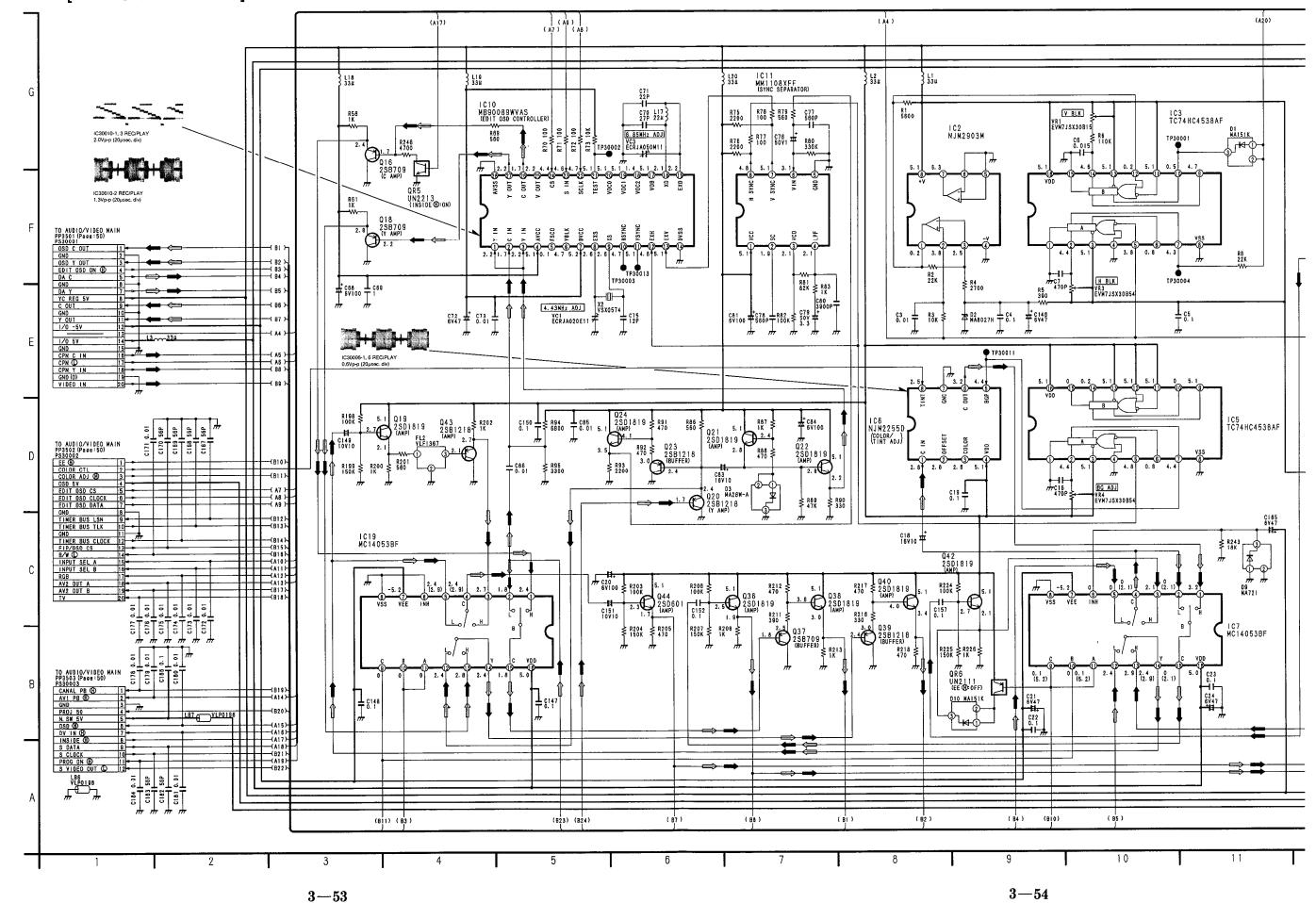


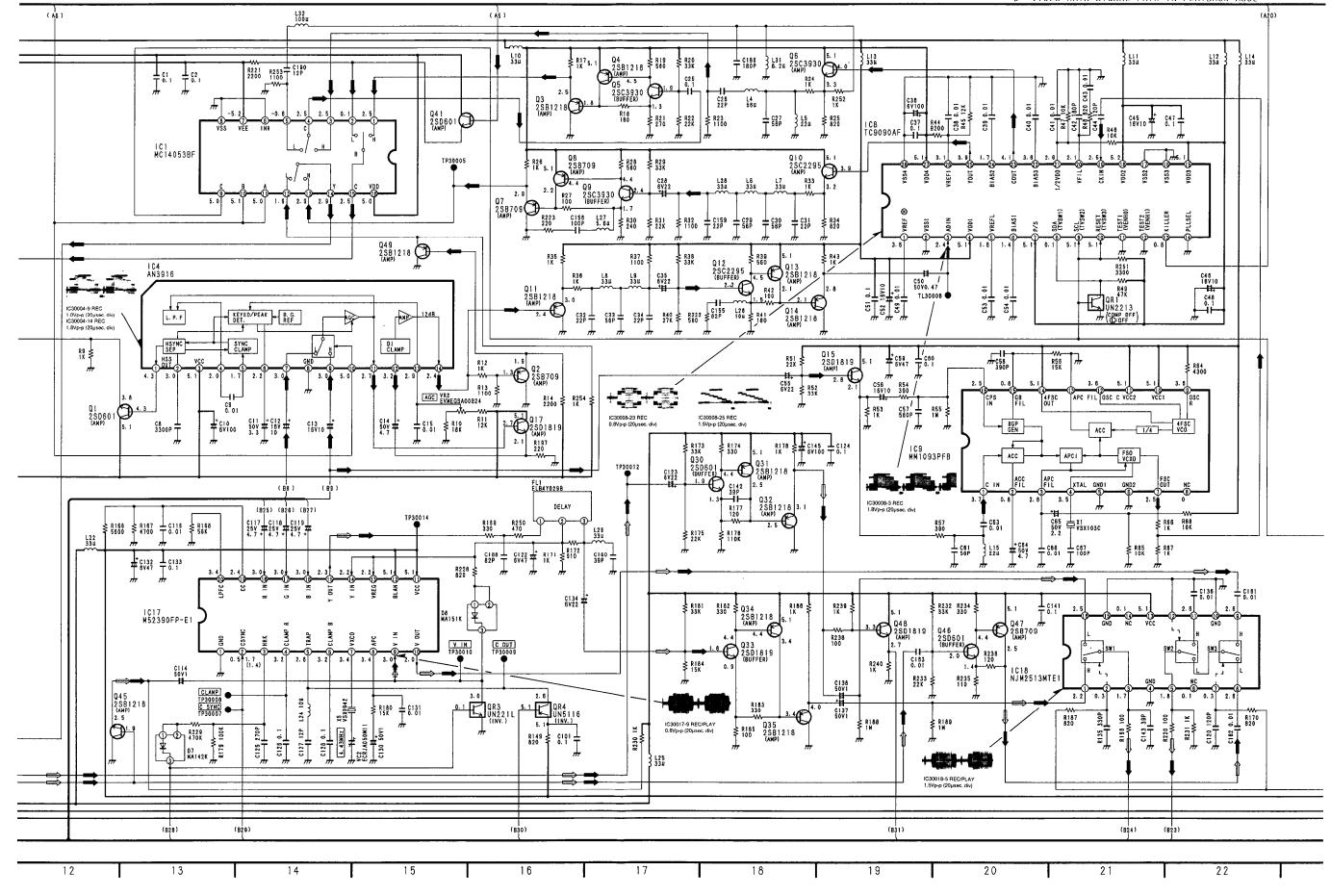
## 3-16. RF SECTION IN MAIN SCHEMATIC DIAGRAM

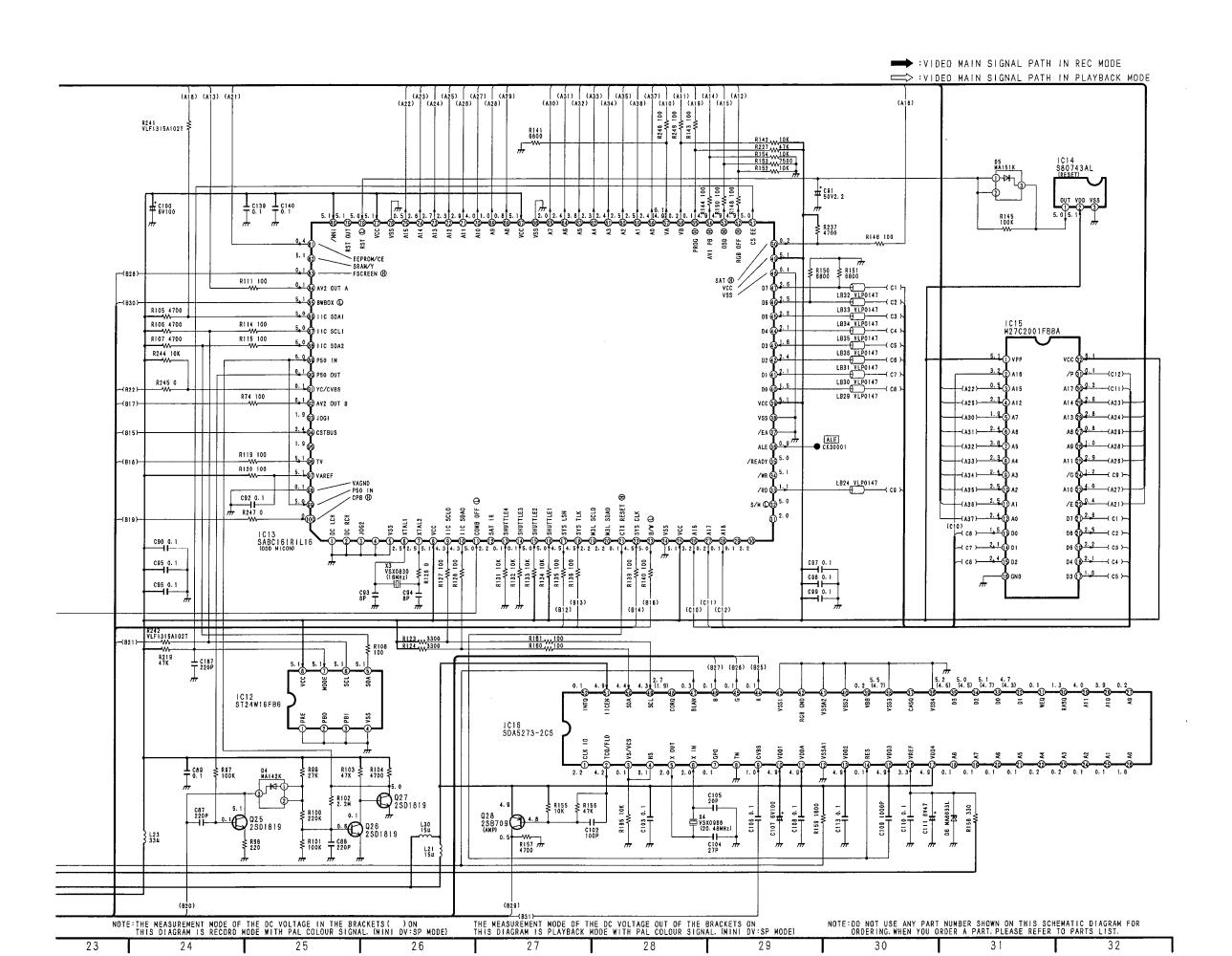


3 - 52

# 3-17. ANALOG Y/C SCHEMATIC DIAGRAM [REF. NO. 30000 SERIES]





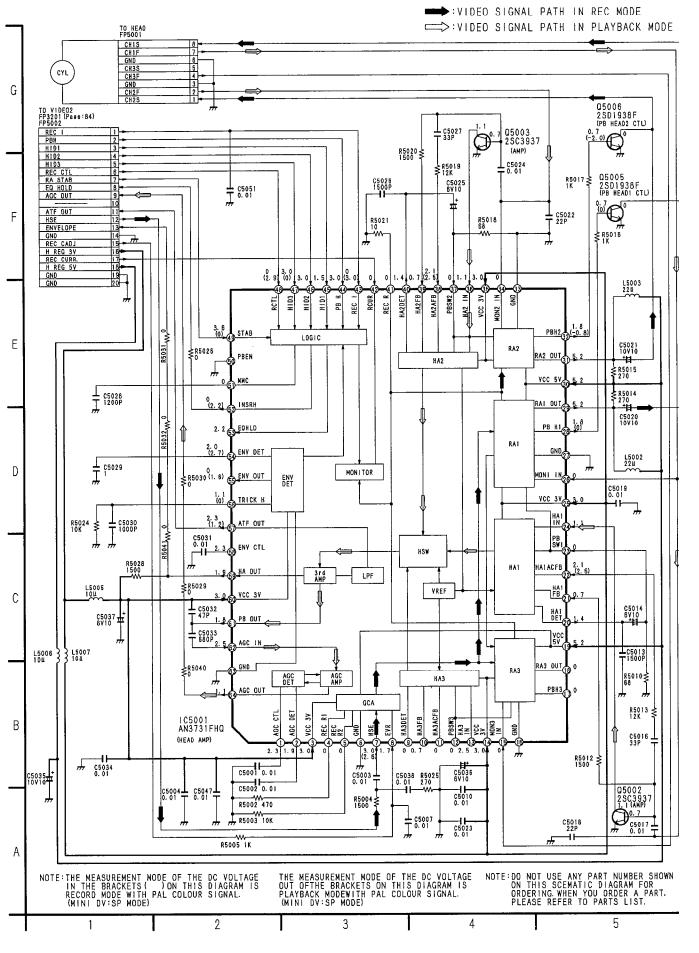


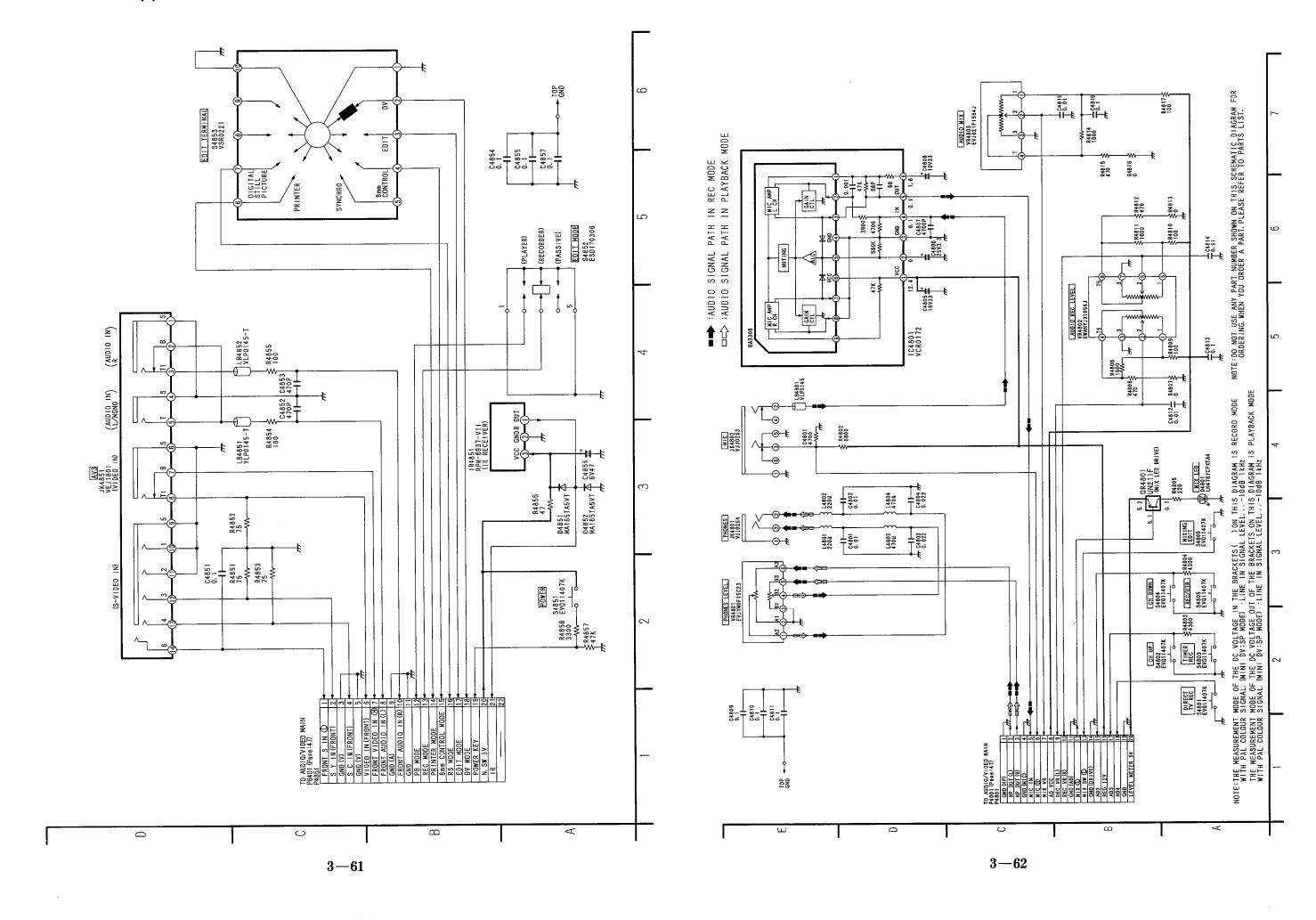
## IC30013 (SABC161RIL16): SUB MICON

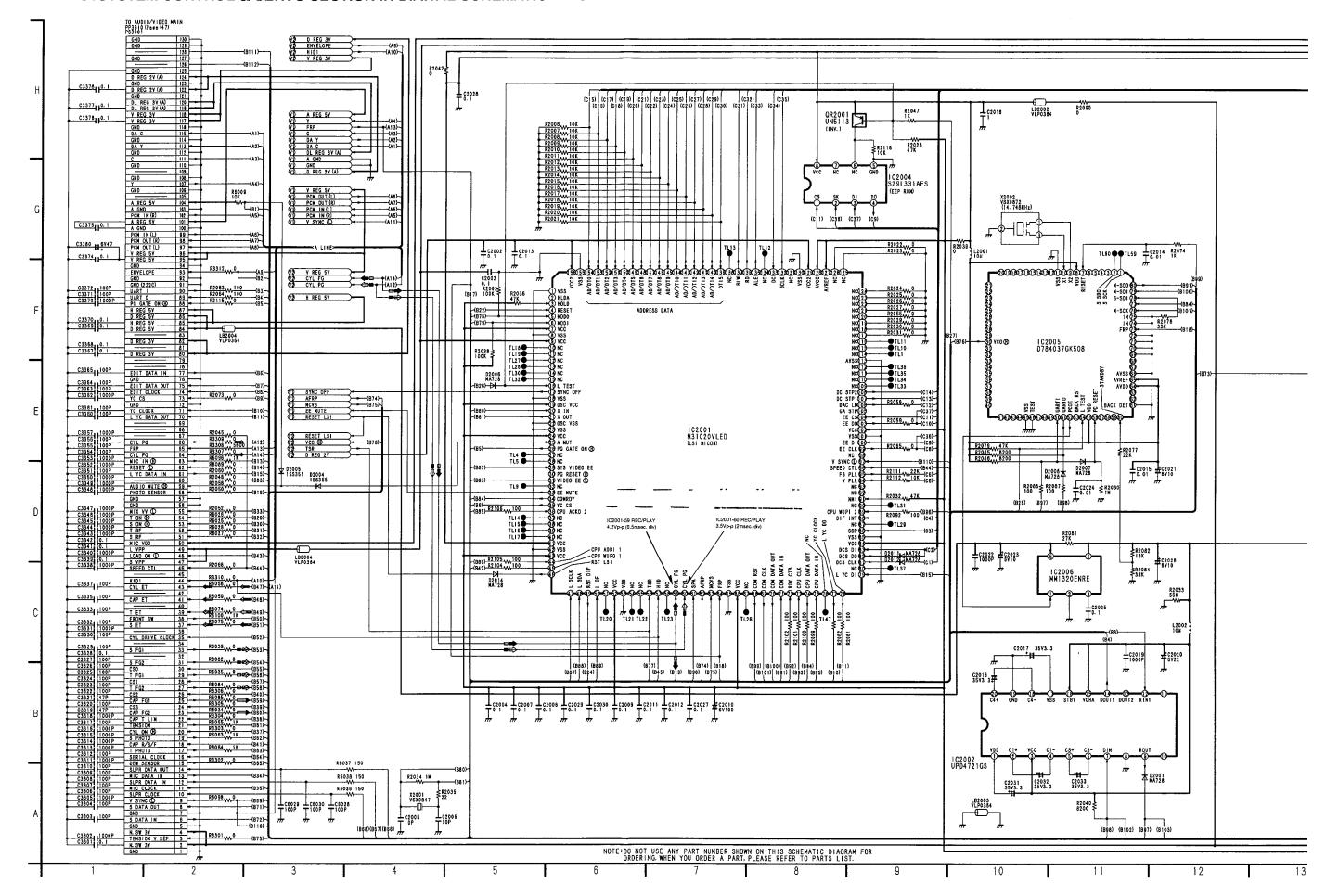
PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1 2	DCLCH DCRCH	I	AD converter, not used AD converter, not used	53	OSD (H)	0	H=any OSD character displayed, L=no OSD character displayed
3	JOG2	<u> </u>	Jog dial 2 input	54	AV1 PB⊕	0	Pin8 of I/O control → PB (H)
4		ı	Hi-Z	34	AVIID		I/O control to switch IIC bus for LW-programmer.
5	Vss	_	GND	55	PROG ⊕	0	H: IIC bus is connected to AV2.
	XTAL1		Oscillator amplifier input, 16MHz	55	11100	O	L: IIC bus is not connected to AV2.
6		<u> </u>	Oscillator amplifier output, 16MHz				I/O control: The selection of VCR IN
7	XTAL2	0	5V				VA/VB:LL:tuner VA/VB:HL:AV1
8	Vcc			56	VB	0	VA/VB:LH:AV2 VA/VB:HH:AV3 or SAT
9	IIC SCL0	0	IIC clock line to CTX IC				
10	IIC SDA0	0	IIC data line to CTX IC				Normal Audio Input select for ZN/ZT  Same as Pin56
11	COMB (H)	0	Comb filter ON (H), OFF (L)	57	VA	0	
12	SAT IR	0	Infrared code for SAT receivers	58	A0	0	A0 address line
13	SHUTTLE4		Shuttle input 4	59	A1	0	A1 address line
14	SHUTTLE3	1	Shuttle input 3	60	A2	0	A2 address line
15	SHUTTLE2	_	Shuttle input 2	61	A3	0	A3 address line
16	SHUTTLE1	1	Shuttle input 1	62	A4	0	A4 address line
17	LSN	0	Timer bus listen line	63	A5	0	A5 address line
18	TLK	- I	Timer bus talk line	64	A6	0	A6 address line
19	SCL0 (spare)	0	NC	65	A7	0	A7 address line
20	SDA0 (spare)	0	NC	66	Vss	_	GND
			Reset signal for Compact Text	67	Vcc	ı	5V
21	RESET (H)	0	(0=normal, 1=Reset)	68	A8	0	A8 address line
22	CLK	ī	Timer bus clock line	69	A9	0	A9 address line
			L and High Impedance; L-B/W selected	70	A10	0	A10 address line
23	B/W ©	0	in FUNCTION menu	71	A11	0	A11 address line
24	Vss		GND	72	A12	0	A12 address line
25	Vcc		5V	73	A13	0	A13 address line
26	A16	Ö	A16 address line	74	A14	0	A14 address line
27	A17	ō	A17 address line	75	A15	0	A15 address line
28	A18	0	A18 address line	76	Vss		GND
29		Ť	Pin is active for 4M EPROM	77	Vcc	i	5V
30		0	NC (used for ROM Monitor input)	78	/RST	- <del>i</del>	Reset Input (LOW level=reset active)
31		0	NC (used for ROM Monitor input)	79	/RSTOUT	0	for battery back up circuit
32	S/M ①	0	Croma Mix for SECAM/MESECAM box	80	/NMI	Ī	Non maskable interrupt, connected to Vcc
32	0/14/ €	-	External memory read strobe (for			<u> </u>	Chip enable for external EPROM
33	/RD	0	EPROM and SRAM)	81	/CE	0	(0=EPROM enabled)
<u> </u>	/WR	0	External memory write strobe (for SRAM)	82	N	0	Chip select for SRAM
34	/READY	<del></del>	Ready input, not used	02			Fullscreen high signal, (0=no OSD
35	ALE	1	Address latch enable output, not used	83	FSCREEN ⊕	0	fullscreen, 1=OSD fullscreen)
36	ALE	0		04	AVO OUT A	0	AV2 output selector A
37	/EA	—	External access enable pin, connected	84	AV2 OUT A		force B/W OSD box for SECAM,
		<u> </u>	to GND	85	BWBOX (L)	0	(0=force B/W boxes, 1=colour boxes)
38	Vss	<u> </u>	GND		110 00 44		
39	Vcc		5V	86	IIC SDA1	0	IIC bus clock line 1
40	D0		D0 data line	87	IIC SCL1	0	IIC bus clock line 1
41	D1	<u> </u>	D1 data line	88	IIC SDA2	0	IIC bus clock line 2 (for EEPROM)
42	D2	$\perp$	D2 data line	89	P50 IN		Project50 input
43	D3		D3 data line	90	P50 OUT	0	Project 50 output
44	D4	1	D4 data line	91	YC/CVBS	l -	S VIDEO (L) INPUT
45	D5	1	D5 data line	92	AV2 OUT B	0	AV2 output selector B
46	D6	1	D6 data line	93	JOG1	ı	Jog dial 1 input
47	D7	ı	D7 data line	94	CSTBUS	ı	Chip select signal for timer bus (1=OSD
48	Vss	1-	GND	<u> </u>	33.500		ucon selected, 0=FIP selectyed)
49	Vcc	1	5V	95	<u> </u>	0	NC (used for ROM Monitor input)
			I/O control: The selection of SAT tuner	96	TV⊕	0	TV High: for I/O logic
50	SAT ⊞	0	or AV3. H: SAT tuner L: AV3 In	97	VAREF		Reference voltage for A/D converter, not used
1			This logic is valid, if AV3 is selected by VA/VB	98	VAGND		GND for A/D converter, not used
	60 ==		Write enable for EEPROM. (1=READ	99	P50 in	Πi	Reserved for Project50 in
51	CS EE	0	only 0=Write enabled)				PB (H) signal of AV2 is inputted. This
52	RGB OFF (H)	0	I/O control	100	CPB (H)		logic will be used for I/O control.
		<u>,                                     </u>	1	-		<del></del>	<u> </u>

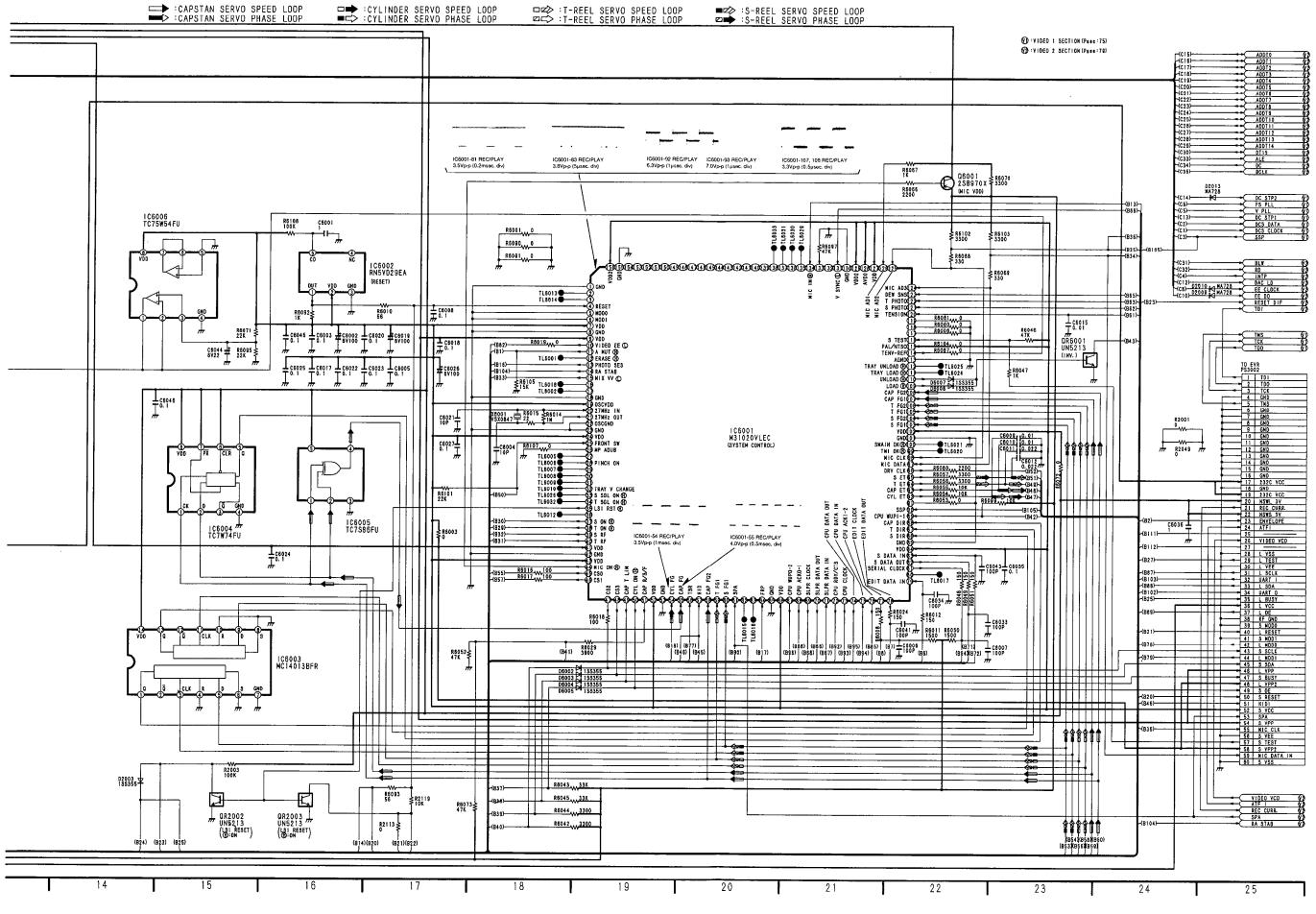
#### 3 - 59

## 3-18. HEAD AMP SCHEMATIC DIAGRAM









# IC2001(M31020VLED): LSI MICON

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	VSS	_		60	CYL PG	1	Cylinder PG
2	HLDA	0	Ext-Bus Hold Acknowlede/BST TCK (CLK)	61	SPA		SPA
3	HOLD	1	Ext-Bus Hold Request	62	AFRP		AFRP
4	RESET	Ī	Reset	63	MCVS	1	MCVS
5	MOD0	ī	Single Chip Mode = Vss Vss	64	FRP	1	Frame reference pulse
6	MOD1	1	Memory Extend Mode = Vss Vcc	65	VSS	_	
7	vcc	_		66	VCC	_	
8	vss			67	NC	0	_
9	VCC			68	COM RST	0	RS232C RESET
10	NC	0	_	69	COM CLK	Ť	RS232C CLK IN
	NC	0		70	COM DATA OUT	0	RS232C SERIAL-DATA OUT
11		_		71	COM DATA IN		RS232C SERIAL-DATA IN
12	NC NC	0					from SYSCON ACK
13	NC	0		72	RDY CTS		
14	NC	0		73	CPU CLK	0	to SYSCON CLK
15	NC	0		74	CPU DATA OUT	0	to SYSCON DATA
16	L TEST		EVR TEST MODE (L)	75	CPU DATA IN	1	from SYSCON DATA
17	SYNC OFF	0	L: Sync Gate Off H; Sync Gate On	76	NC	0	
18	vss	_		77	YC CLOCK	0	YC MICON Serial Clook
19	osc vcc			78	L YC DO	0	YC MICON Data out
20	XIN		27MHz	79	L YC DI	ī	YC MICON Data in
<u>20                                    </u>	X OUT	-	27MHz	80	NC NC	0	_
	OSC VSS		271011112	81	DSC CLK	0	CAS & DVIO Serial Clock
22	ļ			82	DSC D2R	0	CAS & DVIO Serial Data Out
23	VSS						CAS & DVIO Serial Data In
24	VCC			83	DSC D1		CAS & DVIO Serial Data III
25	A MUT	0	AUDIO MUTE	84	VCC		
26	PG GATE ON⊕	0	PG GATE Control	85	VSS		
27	NC	0		86	SSP		Sector Start Pulse
28	NC	0		87	NC	0	
29	SYS VIDEO EE	ı	SYSCON EE/VV	88	DIF INT	1	Digital Interface IF
30	PG RESET⊕	0	PG RESET	89	CPU WUPI 2	0	
31	VIDEO EE©	0	I/O Pack EE/VV Select	90	NC	0	<del>-</del>
32	NC NC	<del>-</del> ō		91	NMI	ı	Pull-up
33	EEMUTE	0	EE MUTE	92	NC	0	_
34	COMRDY	0	232C MICON RDY	93	NC	0	_
		<del>-</del>	YC MICON CS	94	V PLL	0	Video PLL
35	YC CS		_	95	FS PLL	0	FS PLL (ATF ERR for Linear arrengement
36	CPU ACK 0-2	0				1	CYL PG Amp Control (FF/REW 100 Times or mor
37	CTL 27M	0	27MHz Freq. Select	96	NC3(SPEED C TL)	1	REC V Countermeasure
38	NC			97	NC2(VSYNC)		
39	NC	_0_		98	NC1	0	Spare
40	NC	0	<u> </u>	99	EE CLK	0	EEprom & DAC Clock
41	VCC	_		100	EE DI		EEprom & DAC Data In
42	VSS	_		101	VSS		
43	VCC			102	VCC		
44	CPU ACKO-1	1	from SYSCON ACK	103	EE DO	0	EEprom & DAC Data Out
45	CPU WUPO-1	<del>-</del>	to SYSCON REQ	104	EE CS	0	EEprom Chip Select
46	RST LSI	<del>-</del>	DVIO, CAS, EDA Reset	105	GA STP	0	L: Active H: Not Active
		<del></del>	for FLASH CLK	106	DACLD	0	DAC Load
47	L SCKL	1		107	DCS STP1	0	DVIO Serial Strobe Pulse
48	L SDA		for FLASH DATA IN			0	CAS Serial Strobe Pulse
49	RST DIF	0	DIF LSI Reset	108	DCS STP2		
50	L 0E		for FLASH WRITE 0E	109	NC NC	0	_
51	NC	0		110	NC_	0	
52	VCC			111	NC	0	_
53	VSS			112	NC	0	_
54	NC	0	_	113	AVSS		
55	NC	0	_	114	NC	1.	Connect to GND (0Ω)
	TSR	<del>_</del>	Track Start Refference	115	NC	1	Connect to GND (0Ω)
5h						+	transcription to the second se
56 57	<del></del>	ī	HSW	116	NC	1	Connect to GND $(0\Omega)$
56 57 58	HID NC	<u>Г</u>	HSW	116 117	NC NC	1	Connect to GND $(0\Omega)$

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
119	NC	ı	Connect to GND (0Ω)	138	BHW	0	
120	NC	I	Connect to GND (0Ω)	139	DT15	1/0	EXT-Memory Address/Data Bus
121	NC	I	Connect to GND (0Ω)	140	ADDT14	I/O	EXT-Memory Address/Data Bus
122	NC	1	Connect to GND (0Ω)	141	ADDT13	I/O	EXT-Memory Address/Data Bus
123	NC	1	Connect to GND (0Ω)	142	ADDT12	1/0	EXT-Memory Address/Data Bus
124	NC	1	Connect to GND (0Ω)	143	ADDT11	1/0	EXT-Memory Address/Data Bus
125	NC	1	Connect to GND (0Ω)	144	ADDT10	I/O	EXT-Memory Address/Data Bus
126	NC		Connect to GND (0Ω)	145	ADDT9	1/0	EXT-Memory Address/Data Bus
127	AVREF			146	ADDT8	1/0	EXT-Memory Address/Data Bus
128	AVCC	_		147	ADDT7	1/0	EXT-Memory Address/Data Bus
129	VCC2			148	ADDT6	1/0	EXT-Memory Address/Data Bus
130	VSS	-		149	ADDT5	1/0	EXT-Memory Address/Data Bus
131		0		150	ADDT4	1/0	EXT-Memory Address/Data Bus
132	BCLK	0		151	ADDT3	1/0	EXT-Memory Address/Data Bus
133	D0	ı	Data Complete for Ext-Momory mode	152	ADDT2	1/0	EXT-Memory Address/Data Bus
134	R/W	0	_	153	ADDT1	1/0	EXT-Memory Address/Data Bus
135	ALE	0	Address Latch Enable for Ext-Memory mode	154	ADDT0	1/0	EXT-Memory Address/Data Bus
136	RD	0	Read Strobe for Ext-Memory mode	155	VSS		
137	BLW	0	Byte Low Write for Ext-Memory mode	156	VCC2	<u> </u>	

# IC2005 (D784037GK508): RS-232C INTERFACE MICROCOMPUTER

	,						
PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
	= u= 0 0 u		Serial Clock Signal for SYNC Serial	46	TEST	_	GND
1	EVR SCK	0	Communication (To Camera Micom)	47	CGCS	0	CG CS
			Serial Data Signal for SYNC Serial	48	CGPCL	0	CG PCL
2	EVR SBO	0	Communication (To Camera Micom)	49	P12	_	(N.C.)
_	\( T \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		SYNC Serial Communication Enable	50	UARTI	I	RS-232C Data
5	VTR T	0	Signal for Camera Micom	51	UARTO	0	RS-232C Data
7	RESET		Reset Signal	52	PCOE	0	RS-232C Driver Output Enable
8	VDD		VDD (+3V)	53	BACK RST		(N.C.)
9	X2	0	Oscillator (14.7456MHz)	- 54	TEST0		VTR Test Signal
10	X1	1	Oscillator (14.7456MHz)	7 54	12310		(H: Normal, L: Test Mode)
11	GND	_	GND	55	VDD		VDD (+3V)
12	STITLEL	0	Sound Effect Control Signal	56	PC RST	1	Reset Signal Detect (AD Input)
13	LR CONT	0	LCD Driver Control (L/R Invert)	60	STBY	I	RS-232C Cable Connect Confirm
14	UD CONT	0	LCD Driver Control (U/D Invert)	61	BACK DET	<b>—</b>	GND
15	LCD P SAVE		(N.C.)	64	AVDD		Voltage for AD Converter (+3V)
17	INSEL		(N.C.)	65	AVREF1		Refference Voltage for AD Converter
18	TALLY	0	TALLY LED Control	7 %	AVNELL		(+3V)
19	ALINEH	_	(N.C.)	66	AVSS	_	GND for AD Converter
20	T PH AD2	0	Take µ	67	ANOO	<u></u>	(N.C.)
21	T PH AD1	0	Take µ	68	ANO1		(N.C.)
22	S PH AD2	0	Supply Tape Sensor	69	AVREF2	<u> </u>	GND
23	S PH AD1	0	Supply Tape Sensor	70	AVREF3		GND
24	EYE P SAVE		(N.C.)	71	P20	<u> </u>	GND
25	LCD WIDE	0	LCD Driver Wide Select	72	CAM T		Camera Service/232C Micom Select
26	SPK ON H	0	Speaker ON	12	OAW 1	<u> </u>	Signal (H: 232C, L: Camera Service)
27	WIDNSW H	0	Noise Silent	73	FRP		Frame SYNC Signal
28	VTR LED	0	VTR Mode LED		SCK		Serial Clock Signal for SYNC Serial
29	CAM LED	0	CAMERA Mode LED				Communication (To VTR Micom)
30	VCO H	0	VCO Test Mode (H)	77	COM RDY		SYNC Serial Communication Enable
31	LCD BL CONT	0	LCD Back Light Control Signal		001/11/101	<u>  `</u>	Signal for VTR Micom
32	BL BRIGHT H	0	Back Light Bright Control Signal		EVR SDI		Serial Data Input for SYNC Serial
33	EVF BL CONT	0	EVF Back Light Control Signal	,,,	2411051	<u> </u>	Communication (To Camera Micom)
34	EVF ON	0	EVF ON	79	SDI		Serial Data for SYNC Serial
35	LCD ON	0	LCD ON		1 351	<u> </u>	Communication (To VTR Micom)
44	CLKOUT		(N.C.)	80	SDO	0	Serial Data for SYNC Serial
45	GND		GND	"	000		Communication (To VTR Micom)

# IC6001 (M31020VLEC): SYSTEM CONTROL MICROPROCESSOR

PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	GND	_		55	CAP.FG		CAPSTAN 2 PHASE FG
2	<u> </u>	0	Low FIX	56	TSR	ı	HID PHASE REF. SIGNAL
3		O	Low FIX	57	HID	- 1	HEAD SELECT SW
4	RESET	- 1	RESET INPUT	58	CAP.FG2	1	CAPSTAN FG 2
5	MOD0	Ī	SIGNAL CHIP MODE SELECT	59	T.FG1	1	T REEL FG 1
6	MOD1	I	SIGNAL CHIP MODE SELECT	60	S.FG1	1	S REEL FG 1
7	VDD	_	VDD	61	SPA		
8	GND	_	GND	62	_	0	FIX Low OUTPUT
9	VDD		VDD	63	_	0	FIX Low OUTPUT
10	VIDEO.EE©	0	EE/VV SELECT OUTPUT (EE: L)	64	FRP		FRAME REF. SIGNAL
11	A.MUT(H)	0	AUDIO MUTE 🕀	65	GND		GND
12	ERASE®	0	ERASE ON ⊕/OFF	66	VDD		POWER
13	PHOTO.SNS	0	TAPE SENSOR LED (ON: L)	27	(0.0)		SYS CTL μ-PROCESSOR ↔ LSI
14	RASTAB	0	S TAB OUTPUT	67	(CPU WUP0-2)	0	(OMMUNICATION)
15	MIX.VV	0	MIX OUTPUT (VV MODE): L				SYS CTL μ-PROCESSOR ↔ LSI
16	EE.MONI	<del>-</del>	EE MONITOR OUT: L	68	CPU ACK0-1	0	(OMMUNICATION)
17		<del>-</del>	FIX LOW OUTPUT				SERIAL/PARALLEL
18	GND		GND	69	SLPR.CLOCK	0	CONVERSION EXPANSION IC
19	VDD		OSC POWER		SLPR. DATA.		SERIAL/PARALLEL
20	27MHz. IN		27MHz INPUT	70	OUT	0	CONVERSION EXPANSION IC
21	27MHz. OUT	<del>-</del>	27MHz OUTPUT		SLPR. DATA.		SERIAL/PARALLEL
22	GND		OSC GND	71	IN	- 1	CONVERSION EXPANSION IC
23			GND		111		SYS CTL μ-PROCESSOR ↔ LSI
	GND		POWER	72	CPU RDY/CTS	0	COMMUNICATION
24	VDD	_					SYS CTL μ-PROCESSOR ←→ LSI
25	FRONT SW	1	FRONT DOOR OPEN DETECT INPUT (OPEN: L, CLOSE/NO DOOR: H)	73	CPU CLOCK	- 1	· ·
			FIX Low OUTPUT				SERIAL SLAVE CLOCK
26	MP ADUB	0		74	CPU DATA OUT	0	SYS CTL µ-PROCESSOR ↔ LSI
27		<u> </u>	FIX Low OUTPUT				SERIAL DATA OUTPUT
28	PINCH ON⊕	0	PINCH SOLENOID CONTROL OUTPUT	75	CPU DATA IN	- 1	SYS CTL μ-PROCESSOR ↔ LSI
29		0	FIX Low OUTPUT				SERIAL DATA INPUT
30	_	0	FIX Low OUTPUT	76	(CPU ACKI-2)	0	SYS CTL μ-PROCESSOR ↔ LSI
31		0	FIX Low OUTPUT		(0. 0 / 10 1 1 2 )		COMMUNICATION
32	TRAY VCHANGE	0	TRAY MOTOR VOLTAGE CONTROL OUTPUT	77	EDIT.CLOCK	0	SYS CTL μ-PROCESSOR ↔ EDIT
33	S SOL ON®	0	S REEL SOLENOID CONTROL OUTPUT				MICON SERIAL MASTER CLOCK
34	T SOL ON⊕	0	T REEL SOLENOID CONTROL OUTPUT	78	EDIT. DATA.	0	SYS CTL μ-PROCESSOR ↔ EDIT
35	PINE RST⊕	0	RESET High OUTPUT		OUT		MICON SERIAL DATA OUTPUT
36		0	FIX LOW OUTPUT	79	EDIT. DATA.	1	SYS CTL μ-PROCESSOR ↔ EDIT
37	S.ON⊕	0	S REEL ON/OFF CONTROL	, 5	IN		MICON SERIAL DATA INPUT
38	T.ON⊕	0	T REEL ON/OFF CONTROL	80		0	FIX Low OUTPUT
39	S.RF	0	S REEL ROTATION DIRECTION CONTROL	81	SIRIAL.CLOCK	0	TIMER ↔ SYS CTL μ-PROCESSOR
40	T.RF	0	T REEL ROTATION DIRECTION CONTROL	01	SINIAL.CLOCK		MASTER CLOCK
41	VDD	_	POWER	90	C DATA OUT		TIMER ←→ SYS CTL μ-PROCESSOR
42	GND		GND	82	S. DATA. OUT	0	SIRIAL DATA OUTPUT
43	VDD	_	POWER	- 00	0 0474 111		TIMER ↔ SYS CTL μ-PROCESSOR
44	MIC.ON(H)	0	POWER FOR MIC	83	S. DATA. IN	ı	SIRIAL DATA INPUT
			SERIAL/PARALLEL CONVERSION IC CHIP	84	VDD		POWER
45	CS0	0	SELECT SIGNAL	85	GND		GND
			SERIAL/PARALLEL CONVERSION IC CHIP	86	S. DIR	1	S REEL ROTATION DIRECTION DET.
46	CS1	0	SELECT SIGNAL	87	T. DIR	1	T REEL ROTATION DIRECTION DET.
			SERIAL/PARALLEL CONVERSION IC CHIP	88	CAP. DIR	1	CAPSTAN ROTATION DIRECTION DET
47	CS2	0	SELECT SIGNAL	-			SYS CTL μ-PROCESSOR ↔ LSI
			SERIAL/PARALLEL CONVERSION IC CHIP	89	CPU WUPI-1	0	PROCESSOR COMMUNICATION
48	CS3	0	SELECT SIGNAL	90	SSP	1	SECTOR START PULSE INPUT
40	CARTUR		CAP TORQUE LIMIT	91		<u> </u>	SESTORION TO LOCALINI OT
49	CAP.T.LIM	0	CYL DRIVING: Low	92	CVL FT	<del>-</del>	CYLINDER TORQUE OUTPUT (12bit PWM
50	CYL.ON®	0_			CYL. ET		
51	CAP.R/S/F	0	CAPSTAN ROTATION DIRECTION CONTROL	93	CAP. ET		CAPSTAN TORQUE OUTPUT (12bit PWM)
52	VDD	_	POWER	94	T. ET	0	T REEL TORQUE OUTPUT (12bit PWM)
53	GND		GND	95	S. ET	0	S REEL TORQUE OUTPUT (14bit PWM)
54	CYL.FG	1	CYLINDER FG	96	DRV. CLK	0	CYLINDER DRIVER CLOCK

PIN. NO.	SIGNAL NAME	I/O	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
97	MIC. DATA	I/O	MIC SERIAL DATA	127	VDD	_	REF. POWER FOR ANALOG
98	MIC. CLK	0	MIC SERIAL CLOCK	128	VDD	_	ANALOG POWER
99	TM1 OK⊕	0	TIMER SERIAL CLOCK (500µ sec.)	129	VDD	_	POWER FOR BUS
100	SMAIN OK⊞	0	SYS. CTL MAIN ROUTIN (20msec.)	130	GND		GND
101	GND		GND	131	<b>VSYNC</b>	1	V SYNC INPUT (SYNC EXIST: L)
102	VDD	_	POWER	132		0	
103	S. FG1	I	S REEL FG 1	133			GND (VIA 47k Resistor)
104	S. FG2	- 1	S REEL FG 2	134	MIC IN⊞	1	MIC INPUT (MIC IN: H)
105	T. FG1	1	T REEL FG 1	135		0	FIX Low OUTPUT
106	T. FG2	1	T REEL FG 2	136		0	FIX Low OUTPUT
107	CAP. FG1	ı	CAPSTAN FG 1	137		0	FIX Low OUTPUT
108	CAP. FG2	1	CAPSTAN FG 2	138		0	FIX Low OUTPUT
109	LOAD⊕	0	LOADING MOTOR FORWARD OUTPUT	139	<u> </u>	0	
110	UNLOAD⊕	0	LOADING MOTOR REVERSE OUTPUT	140	<u> </u>	0	FIX Low OUTPUT
111	TRAY LOAD(H)	0	TRAY MOTOR FORWARD OUTPUT	141		0	FIX Low OUTPUT
112	TRAY UNLD®	0	TRAY MOTOR REVERSE OUTPUT	142		0	FIX Low OUTPUT
113	GND		GND	143		0	FIX Low OUTPUT
114	TEN V REF	ı	INPUT	144	_	0	FIX Low OUTPUT
115	NTSC(L)	Т	NTSC = LOW/PAL = HIGH	145		0	FIX Low OUTPUT
116	S. TEST	1	EVR ADJ INPUT	146		0	FIX Low OUTPUT
117	_		VIA RESISTOR GND	147	_	0	FIX Low OUTPUT
118	_	-	VIA RESISTOR GND	148	_	0	FIX Low OUTPUT
119		П	VIA RESISTOR GND	149	_	0	FIX Low OUTPUT
120	TENSION	1	TAPE TENSION A/D INPUT	150		0	FIX Low OUTPUT
121	S. PHOTO	1	S PHOTO SENSOR INPUT (BLACK TAPE: L)	151	_	0	FIX Low OUTPUT
122	T. PHOTO	Ī	T PHOTO SENSOR INPUT (BLACK TAPE: L)	152	_	0	FIX Low OUTPUT
123	DEW. SNS	ī	DEW SENSOR INPUT	153		0	FIX Low OUTPUT
124	MIC. AD3	ı	A/D INPUT 3 FOR MIC	154		0	FIX Low OUTPUT
125	MIC. AD2	-	A/D INPUT 2 FOR MIC	155	GND		GND
126	MIC. AD1	1	A/D INPUT1 FOR MIC	156	VDD 2		GND

3 - 70

## LSI/SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (Mini DV : SP MODE)

	<i>,</i> ,,						103			AUL			(141111				<i>,</i>			
REF. NO.										IC2	001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	3.6	3.6	2.7	0	3.6	3.6	0	3.6	0	0	0	0	0	0	3.6	3.6	0	3.6	1.7
		<del></del>		_		<del></del>		+			<del>                                     </del>	<del></del>					_			
PLAY	0	3.6	3.6	2.7	0	3.6	3.6	0	3.6	0	0	0	0	0	0	3.6	0	0	3.6	1.7
REC	0	3.6	3.6	2.7	0	3.6	3.6	0	3.6	0	0	0	0	0	0	3.6	3.6	0	3.6	1.7
F.F	0	3.6	3.6	2.7	0	3.6	3.6	3.6	3.6	0	0	0	0	0	0	3.6	3.6	0	3.6	1.7
REW	0	3.6	3.6	2.6	0	3.6	3.6	0	3.6	0	0	0	0	0	0	0	3.6	0	3.6	1.7
REF. NO.		•								IC2	001									•
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	-		<del> </del>		+	-		0				_							<del></del>	
STOP	1.7	0	0	3.6	0	0	0		0	0	0	0	0	3.6	3.3	0	0	0	0	0
PLAY	1.8	0	0	3.6	0	0	0	0_	3.6	0	3.6	0	0	3.6	3.3	0	3.6	0	0	0
REC	1.7	0	0	3.6	0	0	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	0
F.F	1.8	0	0	3.6	0	0	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	0
REW	1.8	0	0	3.5	0	3.6	0	0	0	0	0	0	0	3.6	3.3	0	0	0	0	0
REF. NO.		-			,			I		IC2	001					·		·	1	
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
		-					_										_			
STOP	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
PLAY	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
REC	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
F.F	3.6	0	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.7	0.2
REW	3.6	0.7	3.6	0	0	3.6	3.6	3.6	3.6	3.6	0	3.6	0	0	0	1.5	1.5	0	1.6	0.2
REF. NO.									,		001	,						. <u> </u>		
	~-		00	2.1	25		67		1 00			70	70	7,	7,	70	77	70	70	
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
PLAY	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.5	0	3.6	3.5	2.8	0
REC	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
F.F	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0
REW	0	1.5	1.5	1.5	0	3.6	0	3.6	3.5	3.3	0.1	3.6	3.6	3.6	1.8	0	3.6	3.5	2.8	0.9
		1.5	1.5	1.5		0.0	U	1 0.0	0.0	IC2		3.0	0.0	0.0	1.0		5.0	0.0	2.0	0.5
REF. NO.										_										
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	3.6	2.9	2.9	3.6	0_	0	0	3.0	0	0	3.6	0	0	1.1	0	1.0	0	3.6	3.6	1.6
PLAY	3.6	3.0	2.9	3.6	0	0	0	3.0	0	0	3.6	0	0	0	1.6	1.0	0	3.6	3.6	1.1
REC	3.6	3.2	2.9	3.6	0	0	0	3.0	0	0	3.6	0	0	1.1	0	0.9	0	3.6	3.6	1.8
F.F	3.6	3.1	2.9	3.5	0	0	0	3.0	0	0	3.6	0	0	1.1	0	1.1	1.0	3.6	3.6	1.8
													_		_				_	
REW																1.8				
REF. NO.																				
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	0	3.6	3.6	0	0	0	2.7	3.5	0	0	0	0	0	1.5	1.5	1.5	0	0	0	0
PLAY	0	3.6	3.6	0	0	0	2.7	3.4	0	0	0	0	0	1.1	1.1	1.1	0	0	0	0
REC	0	3.6	3.6	0	0	0	2.7	3.4	0	0	0	0	0	1.7	1.8	1.7	0	0	0	0
F.F	0	3.6	3.6	0	0	0	2.7	3.5	0	0	0	0	0	1.8	1.8	1.8	0	0	0	0
				_									-		-					
REW	0	3.6		0	0	0	2.7	3.4	0	0	0	0	0	1.4	1.4	1.5	0	0	0	0
REF. NO.			3.6							100										
			3.0							IC2	UUI									
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
		122	123	124		126 0							133	134	135 0	136 2.2				140 0
STOP	0	122	123	0	0	0	3.6	3.6	2.2	130 0	131 0	0.7	0	0	0	2.2	2.1	2.2	0.1	0
STOP PLAY	0	122 0 0	123 0 0	0	00	0	3.6	3.6 3.6	2.2	130 0 0	131 0 0	0.7 0.7	0	0	0	2.2	2.1 2.2	2.2	0.1	0.1
STOP PLAY REC	0 0	122 0 0	123 0 0	0 0 0	0 0 0	0 0	3.6 3.6 3.6	3.6 3.6 3.6	2.2 2.2 2.2	130 0 0	131 0 0	0.7 0.7 0.7	0 0	0 0	0 0 0	2.2 2.1 2.2	2.1 2.2 2.1	2.2 2.2 2.1	0.1 0.1 0.1	0 0.1 0.1
STOP PLAY REC F.F	0 0 0	122 0 0 0	123 0 0 0	0 0 0	0 0 0	0 0 0	3.6 3.6 3.6 3.6	3.6 3.6 3.6 3.6	2.2 2.2 2.2 2.2	130 0 0 0	131 0 0 0	0.7 0.7 0.7 0.7	0 0 0	0 0 0	0 0 0	2.2 2.1 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW	0 0	122 0 0	123 0 0	0 0 0	0 0 0	0 0	3.6 3.6 3.6	3.6 3.6 3.6	2.2 2.2 2.2	130 0 0	131 0 0	0.7 0.7 0.7	0 0	0 0	0 0 0	2.2 2.1 2.2	2.1 2.2 2.1	2.2 2.2 2.1	0.1 0.1 0.1	0 0.1 0.1
STOP PLAY REC F.F	0 0 0	122 0 0 0	123 0 0 0	0 0 0	0 0 0	0 0 0	3.6 3.6 3.6 3.6	3.6 3.6 3.6 3.6	2.2 2.2 2.2 2.2	130 0 0 0	131 0 0 0 0	0.7 0.7 0.7 0.7	0 0 0	0 0 0	0 0 0	2.2 2.1 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW	0 0 0	122 0 0 0	123 0 0 0	0 0 0	0 0 0	0 0 0	3.6 3.6 3.6 3.6	3.6 3.6 3.6 3.6	2.2 2.2 2.2 2.2	130 0 0 0 0	131 0 0 0 0	0.7 0.7 0.7 0.7	0 0 0	0 0 0	0 0 0	2.2 2.1 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE	0 0 0 0 0 0	122 0 0 0 0 0	123 0 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	3.6 3.6 3.6 3.6 3.6	3.6 3.6 3.6 3.6 3.6	2.2 2.2 2.2 2.2 3.6	130 0 0 0 0 0 0	131 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7	0 0 0 0	0 0 0 0	0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE STOP	0 0 0 0 0 0	122 0 0 0 0 0 0	123 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	3.6 3.6 3.6 3.6 3.6 147 0	3.6 3.6 3.6 3.6 3.6 448 0	2.2 2.2 2.2 2.2 3.6	130 0 0 0 0 0 0 0 1C2 150	131 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 152	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	0 0 0 0 0 0	122 0 0 0 0 0 0	123 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	3.6 3.6 3.6 3.6 3.6 447 0	3.6 3.6 3.6 3.6 3.6 148 0	2.2 2.2 2.2 2.2 3.6 149 0	130 0 0 0 0 0 0 0 1C2 150 0	131 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 152 0 0.1	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2 156 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC	0 0 0 0 0 0 0	122 0 0 0 0 0 0 0	123 0 0 0 0 0 0 0 143 0 0.1	0 0 0 0 0 0 144 0 0.1	0 0 0 0 0 0 0	0 0 0 0 0 0 146 0 0.1	3.6 3.6 3.6 3.6 3.6 147 0 0.1	3.6 3.6 3.6 3.6 3.6 3.6 0.1	2.2 2.2 2.2 2.2 3.6 149 0 0.1 0.1	130 0 0 0 0 0 0 1C2 150 0 0.1 0.1	131 0 0 0 0 0 0 0 0 0 151 0 0.1	0.7 0.7 0.7 0.7 0.7 152 0 0.1	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 154 0 0.1	0 0 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2 156 2.2 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F	0 0 0 0 0 0 0 141 0 0.1 0.1 2.2	122 0 0 0 0 0 0	123 0 0 0 0 0 0	0 0 0 0 0 0 144 0 0.1 0.1 2.2	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2	0 0 0 0 0 0 146 0 0.1 0.1 2.2	3.6 3.6 3.6 3.6 3.6 147 0 0.1 0.1	3.6 3.6 3.6 3.6 3.6 3.6 0 0.1 0.1 2.2	2.2 2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2	130 0 0 0 0 0 0 150 0 0.1 0.1	131 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 154 0 0.1 0.1	0 0 0 0 0 0 155 0 0	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC	0 0 0 0 0 0 0	122 0 0 0 0 0 0 0	123 0 0 0 0 0 0 0 143 0 0.1	0 0 0 0 0 0 144 0 0.1	0 0 0 0 0 0 0	0 0 0 0 0 0 146 0 0.1	3.6 3.6 3.6 3.6 3.6 147 0 0.1	3.6 3.6 3.6 3.6 3.6 3.6 0.1	2.2 2.2 2.2 2.2 3.6 149 0 0.1 0.1	130 0 0 0 0 0 0 1C2 150 0 0.1 0.1	131 0 0 0 0 0 0 0 0 0 151 0 0.1	0.7 0.7 0.7 0.7 0.7 152 0 0.1	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 154 0 0.1	0 0 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2 156 2.2 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F	0 0 0 0 0 0 0 141 0 0.1 0.1 2.2	122 0 0 0 0 0 0 0 142 0 0.1 0.1 2.2	123 0 0 0 0 0 0 0 143 0 0.1 0.1	0 0 0 0 0 0 144 0 0.1 0.1 2.2	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2	0 0 0 0 0 0 146 0 0.1 0.1 2.2	3.6 3.6 3.6 3.6 3.6 147 0 0.1 0.1	3.6 3.6 3.6 3.6 3.6 3.6 0 0.1 0.1 2.2	2.2 2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2	130 0 0 0 0 0 0 150 0 0.1 0.1	131 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 154 0 0.1 0.1	0 0 0 0 0 0 155 0 0	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0	2.2 2.2 2.1 0	0.1 0.1 0.1 0.6	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	0 0 0 0 0 0 141 0 0.1 0.1 2.2	122 0 0 0 0 0 142 0 0.1 0.1 2.2	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2	0 0 0 0 0 0 144 0 0.1 0.1 2.2	0 0 0 0 0 0 145 0 0.1 0.1 2.2	0 0 0 0 0 0 0 146 0 0.1 0.1 2.2	3.6 3.6 3.6 3.6 3.6 0.1 0.1 0.1	3.6 3.6 3.6 3.6 3.6 0 0.1 0.1 2.2	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1	130 0 0 0 0 0 1C2 150 0 0.1 0.1 0 0.1	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0	0.7 0.7 0.7 0.7 0.7 0.7 0.1 0 0.1 0	0 0 0 0 0 0 0 153 0 0.1 0.1	0 0 0 0 0 0 154 0 0.1 0.1	0 0 0 0 0 0 155 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2	2.2 2.2 2.1 0 2.2	0.1 0.1 0.1 0.6 0.1	0 0.1 0.1 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE	0 0 0 0 0 0 141 0 0.1 0.1 2.2 0.1	122 0 0 0 0 0 0 142 0 0.1 0.1 2.2	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2	0 0 0 0 0 0 144 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1	3.6 3.6 3.6 3.6 3.6 0.1 0.1 0.1	3.6 3.6 3.6 3.6 3.6 148 0 0.1 0.1 2.2 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1	130 0 0 0 0 0 150 0 0.1 0 0.1 10 102	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0	0 0 0 0 0 0 154 0 0.1 0.1 0	0 0 0 0 0 0 155 0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2	2.2 2.2 2.1 0 2.2	0.1 0.1 0.6 0.1	0 0.1 0.1 0 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP	0 0 0 0 0 0 141 0 0.1 0.1 2.2 0.1	122 0 0 0 0 0 0 142 0 0.1 0.1 2.2 0	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0	0 0 0 0 0 0 144 0 0.1 2.2 0.1	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1	3.6 3.6 3.6 3.6 3.6 147 0 0.1 0.1 7 3.2	3.6 3.6 3.6 3.6 3.6 0 0.1 0.1 2.2 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1	130 0 0 0 0 0 150 0 0.1 0.1 0 0.1 10 3.2	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0	0 0 0 0 0 0 154 0 0.1 0.1 0 0	0 0 0 0 0 0 0 155 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 156 2.2 2.2 2.2 2.2 2.2 16 3.2	2.1 2.2 2.1 0 2.2	2.2 2.2 2.1 0 2.2	0.1 0.1 0.6 0.1	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	0 0 0 0 0 0 141 0 0.1 2.2 0.1 1 9.5 9.5	122 0 0 0 0 0 0 142 0 0.1 2.2 0 2 2.4 2.5	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3	0 0 0 0 0 0 144 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1	3.6 3.6 3.6 3.6 3.6 147 0 0.1 0.1 7 3.2 3.3	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0	2.2 2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1	130 0 0 0 0 0 150 0 0.1 0.1 0 0.1 10 3.2 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0	0 0 0 0 0 0 154 0 0.1 0.1 0 0	0 0 0 0 0 0 155 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8	0.1 0.1 0.6 0.1 19 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP	0 0 0 0 0 0 141 0 0.1 0.1 2.2 0.1	122 0 0 0 0 0 0 142 0 0.1 0.1 2.2 0	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0	0 0 0 0 0 0 144 0 0.1 2.2 0.1	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1	3.6 3.6 3.6 3.6 3.6 147 0 0.1 0.1 7 3.2	3.6 3.6 3.6 3.6 3.6 0 0.1 0.1 2.2 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1	130 0 0 0 0 0 150 0 0.1 0.1 0 0.1 10 3.2	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0	0 0 0 0 0 0 154 0 0.1 0.1 0 0	0 0 0 0 0 0 0 155 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 156 2.2 2.2 2.2 2.2 2.2 16 3.2	2.1 2.2 2.1 0 2.2	2.2 2.2 2.1 0 2.2	0.1 0.1 0.6 0.1	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	0 0 0 0 0 0 141 0 0.1 2.2 0.1 1 9.5 9.5	122 0 0 0 0 0 0 142 0 0.1 2.2 0 2 2.4 2.5	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3	0 0 0 0 0 0 144 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1	3.6 3.6 3.6 3.6 3.6 147 0 0.1 0.1 7 3.2 3.3	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0	2.2 2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1	130 0 0 0 0 0 150 0 0.1 0.1 0 0.1 10 3.2 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0	0 0 0 0 0 0 154 0 0.1 0.1 0 0	0 0 0 0 0 0 155 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8	0.1 0.1 0.6 0.1 19 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	0 0 0 0 0 0 0 141 0 0.1 0.1 2.2 0.1 1 9.5 9.5 9.5	122 0 0 0 0 0 142 0 0.1 0.1 2.2 0 2 2.4 2.5 2.5 2.5	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3 3.3	0 0 0 0 0 0 144 0 0.1 0.1 2.2 0.1 4 0.7 -0.7	0 0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1 5 1.0 1.0	0 0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1 6 -2.2 -2.2 -2.2	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 0.1 7 3.2 3.3 3.3 3.3	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1 9 3.2 3.3 3.3 3.3	130 0 0 0 0 0 0 150 0 0.1 0 0.1 10 3.2 3.3 3.3 3.3	131 0 0 0 0 0 0 0 0 151 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0 0 13 9.5 9.5 9.5	0 0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0 0 3.2 3.3 3.3 3.3	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	0 0 0 0 0 0 141 0 0.1 2.2 0.1 1 9.5 9.5 9.5	122 0 0 0 0 0 0 142 0 0.1 0.1 2.2 0 2 2.4 2.5 2.5	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3	0 0 0 0 0 144 0 0.1 0.1 2.2 0.1 4 0.7 -0.7	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 0.1 7 3.2 3.3 3.3	3.6 3.6 3.6 3.6 3.6 0 0.1 0.1 2.2 0	2.2 2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1	130 0 0 0 0 150 0.1 0.1 0.1 102 13.2 3.3 3.3 3.3 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0	0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. REC F.F REW REF. NO.	0 0 0 0 0 0 141 0 0.1 2.2 0.1 1 9.5 9.5 9.5 9.5	122 0 0 0 0 0 0 142 0 0.1 2.2 0 2 2.4 2.5 2.5 2.5 2.5	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3 3.3 3.3	0 0 0 0 0 0 144 0 0.1 2.2 0.1 4 0.7 -0.7 -0.7 -0.7	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1 5 1.0 1.0 1.0	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1 6 -2.2 -2.2 -2.2 -2.2	3.6 3.6 3.6 3.6 3.6 0.1 0.1 0.1 7 3.2 3.3 3.3 3.3	3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1 9 3.2 3.3 3.3 3.3	130 0 0 0 0 0 0 150 0 0.1 0 0.1 10 3.2 3.3 3.3 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0 0 13 9.5 9.5 9.5	0 0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0 0 3.2 3.3 3.3 3.3	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE	0 0 0 0 0 0 0 141 0 0.1 0.1 2.2 0.1 1 9.5 9.5 9.5 9.5	122 0 0 0 0 0 142 0 0.1 0.1 2.2 0 2 2.4 2.5 2.5 2.5 2.5	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3 3.3 3.3	0 0 0 0 0 0 144 0 0.1 0.1 2.2 0.1 4 0.7 -0.7 -0.7 -0.7	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1 5 1.0 1.0 1.0	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1 6 -2.2 -2.2 -2.2 -2.2 -2.2	3.6 3.6 3.6 3.6 3.6 0.1 0.1 0 0.1 7 3.2 3.3 3.3 3.3 3.3	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1 9 3.2 3.3 3.3 3.3	130 0 0 0 0 150 0.1 0.1 0.1 102 13.2 3.3 3.3 3.3 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0 0 13 9.5 9.5 9.5	0 0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0 0 3.2 3.3 3.3 3.3	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. REC F.F REW REF. NO.	0 0 0 0 0 0 141 0 0.1 2.2 0.1 1 9.5 9.5 9.5 9.5	122 0 0 0 0 0 0 142 0 0.1 2.2 0 2 2.4 2.5 2.5 2.5 2.5	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3 3.3 3.3	0 0 0 0 0 0 144 0 0.1 2.2 0.1 4 0.7 -0.7 -0.7 -0.7	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1 5 1.0 1.0 1.0	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1 6 -2.2 -2.2 -2.2 -2.2	3.6 3.6 3.6 3.6 3.6 0.1 0.1 0.1 7 3.2 3.3 3.3 3.3	3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1 9 3.2 3.3 3.3 3.3	130 0 0 0 0 150 0.1 0.1 0.1 102 13.2 3.3 3.3 3.3 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0 0 13 9.5 9.5 9.5	0 0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0 0 3.2 3.3 3.3 3.3	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE	0 0 0 0 0 0 0 141 0 0.1 0.1 2.2 0.1 1 9.5 9.5 9.5 9.5	122 0 0 0 0 0 142 0 0.1 0.1 2.2 0 2 2.4 2.5 2.5 2.5 2.5	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3 3.3 3.3	0 0 0 0 0 0 144 0 0.1 0.1 2.2 0.1 4 0.7 -0.7 -0.7 -0.7	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1 5 1.0 1.0 1.0	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1 6 -2.2 -2.2 -2.2 -2.2 -2.2	3.6 3.6 3.6 3.6 3.6 0.1 0.1 0 0.1 7 3.2 3.3 3.3 3.3 3.3	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1 9 3.2 3.3 3.3 3.3	130 0 0 0 0 150 0.1 0.1 0.1 102 13.2 3.3 3.3 3.3 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0 0 13 9.5 9.5 9.5	0 0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0 0 3.2 3.3 3.3 3.3	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	0 0 0 0 0 0 0 141 0 0.1 2.2 0.1 1 9.5 9.5 9.5 9.5	122 0 0 0 0 0 142 0 0.1 0.1 2.2 0 2 2.4 2.5 2.5 2.5 2.5 2.5 2.5 3.6 3.6 3.6	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3 3.3 3.3 3.6 3.6	0 0 0 0 0 0 144 0 0.1 0.1 2.2 0.1 4 0.7 -0.7 -0.7 -0.7 -0.7	0 0 0 0 0 0 0 145 0 0.1 0.1 2.2 0.1 5 1.0 1.0 1.0 1.0	0 0 0 0 0 0 146 0 0.1 0.1 2.2 0.1 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2	3.6 3.6 3.6 3.6 3.6 147 0 0.1 0.1 7 3.2 3.3 3.3 3.3 3.3	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1 9 3.2 3.3 3.3 3.3	130 0 0 0 0 150 0.1 0.1 0.1 102 13.2 3.3 3.3 3.3 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0 0 13 9.5 9.5 9.5	0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0 0 3.2 3.3 3.3 3.3	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REC F.F REW REC F.F REW REC F.F REW REC F.F REW REC REC REW REC REC REW REC REC REW REC REC REW REF. NO.	0 0 0 0 0 0 0 141 0 0.1 2.2 0.1 1 9.5 9.5 9.5 9.5 9.5	122 0 0 0 0 0 142 0 0.1 2.2 0 2 2.4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 3.6 3.6 3.6 3.6	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3 3.3 3.3 3.6 3.6 3.6	0 0 0 0 0 0 0 144 0 0 0.1 0.1 2.2 0.1 4 0.7 -0.7 -0.7 -0.7 -0.7 -0.7 1.7 1.6 1.7	0 0 0 0 0 0 0 0 1.45 0 0.1 2.2 0.1 5 1.0 1.0 1.0 1.0	0 0 0 0 0 0 0 0.1 0.1 2.2 0.1 6 -2.2 -2.2 -2.2 -2.2 -2.2 0 0 0	3.6 3.6 3.6 3.6 3.6 147 0 0.1 0.1 7 3.2 3.3 3.3 3.3 3.3 7 0.6 0.8	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1 9 3.2 3.3 3.3 3.3	130 0 0 0 0 150 0.1 0.1 0.1 102 13.2 3.3 3.3 3.3 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0 0 13 9.5 9.5 9.5	0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0 0 3.2 3.3 3.3 3.3	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0 0	0 0.1 0.1 0 0
STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	0 0 0 0 0 0 0 141 0 0.1 0.1 2.2 0.1 1 9.5 9.5 9.5 9.5 9.5	122 0 0 0 0 0 142 0 0.1 0.1 2.2 0 2 2.4 2.5 2.5 2.5 2.5 2.5 2.5 3.6 3.6 3.6	123 0 0 0 0 0 0 143 0 0.1 0.1 2.2 0 3 3.2 3.3 3.3 3.3 3.3 3.6 3.6	0 0 0 0 0 0 0 0.1 0.1 2.2 0.1 4 0.7 -0.7 -0.7 -0.7 -0.7 -1.6	0 0 0 0 0 0 0 145 0 0.1 2.2 0.1 5 1.0 1.0 1.0 1.0	0 0 0 0 0 0 0 0.1 0.1 2.2 0.1 6 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2.2 -2	3.6 3.6 3.6 3.6 3.6 0.1 0.1 0.1 7 3.2 3.3 3.3 3.3 7 0.6 0.8	3.6 3.6 3.6 3.6 3.6 3.6 0.1 0.1 2.2 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.2 2.2 2.2 3.6 149 0 0.1 0.1 2.2 0.1 9 3.2 3.3 3.3 3.3	130 0 0 0 0 150 0.1 0.1 0.1 102 13.2 3.3 3.3 3.3 3.3	131 0 0 0 0 0 0 0 151 0 0.1 0.1 0 0 0 0 0 0 0 0 0 0 0 0 0	0.7 0.7 0.7 0.7 0.7 0.7 152 0 0.1 0.1 0 0	0 0 0 0 0 0 0 153 0 0.1 0.1 0 0 0 13 9.5 9.5 9.5	0 0 0 0 0 0 154 0 0.1 0.1 0 0 14 -9.5 -9.5 -9.5	0 0 0 0 0 0 155 0 0 0 0 0 0 0 3.2 3.3 3.3 3.3	2.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	2.1 2.2 2.1 0 2.2 17 -9.5 -9.5 -9.5	2.2 2.2 2.1 0 2.2 18 0.8 0.8 0.8	0.1 0.1 0.6 0.1 19 0 0 0	0 0.1 0.1 0 0

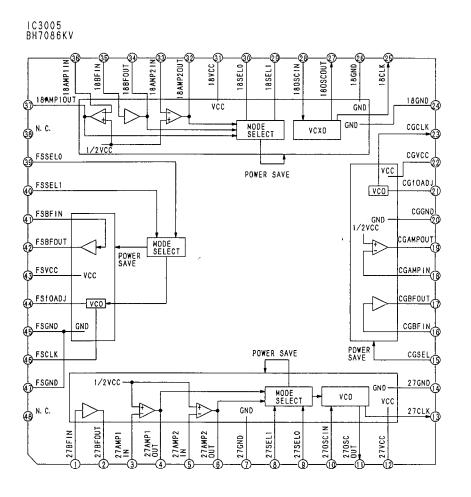
REF. NO.										ICa	:005								<del></del>	
MODE .		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	1					-					-		0	3.7	3.7	0	0	3.7	0	0
STOP	3.0	8.0	0	0	3.7	0	3.6	3.7	1.8	1.6	0	0		_				-		
PLAY	3.0	0.8	0	0	3.7	0	3.6	3.7	1.8	1.7	0	0	0	3.7	3.7	0	0	3.7	0	0
REC	3.0	8.0	0	0	3.6	0	3.6	3.6	1.8	1.5	0	0	0	3.6	3.6	0	0	3.6	0	0
F.F	3.0	0.8	0	0.	3.7	0	3.6	3.7	1.8	1.5	0	0	0	3.7	3.7	0	0	3.7	0	0
REW	3.0	8.0	0	0	3.7	0	3.6	3.7	1.8	1.5	0	0	0	3.7	3.7	0	0	3.7	0	0
REF. NO.											005					r		<del></del>	1	
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
PLAY	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
REC	0	0	0	0	0	3.6	0	3.6	3.6	0	0	3.6	3.6	3.6	0	0	0	0	0	0
F.F	0	0	0	0	0	3.7	0	3.7	3.7	0	0_	3.7	3.7	3.6	0	0	0	0	0	0
REW	0	0	0	0	0	3.7	0	3.7	3.7	0	0	3.7	3.7	3.7	0	0	0	0	0	0
REF. NO.										IC2	005									
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	0	2.1
PLAY	0.1	0	0_	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0.1	0	2.1
REC	0	0	0	0	0	0	0	3.6	0	3.4	3.6	3.6	0	3.6	3.6	3.3	0	0	0	2.1
F.F	0	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	.0	2.1
REW	0	0	0	0	0	0	0	3.7	0	3.4	3.7	3.7	0	3.6	3.7	3.3	0	0	0	2.1
REF. NO.										IC2	005									
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	0	0	3.7	3.7	0	0	0	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	0.1
PLAY	0	0	. 0	3.7	3.7	0	0	0	0	0	0	0.1	1.5	0	0	3.5	3.6	0	3.3	0.1
REC	0	0	0	3.6	3.6	0	0	0	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	0.1
F.F	0	0	0	3.7	3.7	0	0	0	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	0.1
REW	0	0	0	3.7	3.7	0	0	0	0	0	0	0	1.5	0	0	3.5	3.6	0	3.3	0.1
REF. NO.										IC2	006									
MODE	1	2	3	4	5															
STOP	3.7	0	1.2	3.3	5.2															
PLAY	3.7	0	1.2	3.3	5.1															
REC	3.7	0	1.2	3.3	5.1															
F.F	3.7	0	1.2	3.3	5.1												, i			
REW	3.7	0	1.2	3.3	5.1															
REF. NO.										IC6	001									
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	0	2.7	0	0	3.6	0	3.6	0	0	0	0	3.6	3.6	3.6	0	0	3.6	1.8
PLAY	0	0	0	2.7	0	0	3.6	0	3.6	3.6	0	0	3.6	3.6	3.6	3.6	0	0	3.6	1.8
REC	0	0	0	2.6	0	0	3.6	0	3.6	0	0	3.6	3.6	0	3.6	3.6	0	0	3.6	1.8
F.F	0	_	0	2.7	0	0	3.6	0	3.6	0	0	0	3.6	3.6	3.6	3.6	0	0	3.6	1.8
REW	υ	0			0	0	3.6	0	3.6	0	0	0	0	3.6	3.6	3.6	_		3.6	1.8
I 1 ⊆ Y Y	0	0	0	2.6	•	U	3.0										0	0	5.0	
REF. NO.				2.6	<u> </u>	U	5.0			IC6	001						0	0	3.0	
				2.6	25	26	27	28	29	1 <b>C6</b> 30	<b>001</b> 31	32	33	34	35	36	37	38	39	40
REF. NO.	0	0	0					28	29			32 3.6	33	34	35 0					
REF. NO. MODE	21	22	23	24	25	26	27	-		30	31	-				36	37	38	39	40
REF. NO. MODE STOP	0 21 1.8	0 22 0	0 23 0	24 3.6	25 0.1	26 0	27 0	0	0	30 0	31 0	3.6	0	0	0	36 0	37	38	39 3.6	40
REF. NO. MODE STOP PLAY	0 21 1.8 1.7	0 22 0 0	0 23 0	24 3.6 3.6	25 0.1 0.1	26 0 0	27 0 0	0 3.6	0	30 0 0	31 0 0	3.6 3.6	0	0	0	36 0 0	37 0 3.6	38 0 3.6	39 3.6 3.6	40 0 0
REF. NO. MODE STOP PLAY REC F.F REW	0 21 1.8 1.7 1.8	0 22 0 0	0 23 0 0	24 3.6 3.6 3.6	25 0.1 0.1 0.1	26 0 0	27 0 0	0 3.6 3.6	0 0	30 0 0	31 0 0	3.6 3.6 3.6	0 0	0 0	0 0	36 0 0	37 0 3.6 3.6	38 0 3.6 3.6	39 3.6 3.6 3.6	40 0 0 0
REF. NO. MODE STOP PLAY REC F.F	0 21 1.8 1.7 1.8 1.2	0 22 0 0 0 0	0 23 0 0 0	24 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1	26 0 0 0	27 0 0 0	0 3.6 3.6 0	0 0	30 0 0 0	31 0 0 0 0	3.6 3.6 3.6 3.6	0 0 0	0 0 0	0 0 0	36 0 0 0	37 0 3.6 3.6 3.6	38 0 3.6 3.6 3.6	39 3.6 3.6 3.6 3.6	40 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW	0 21 1.8 1.7 1.8 1.2	0 22 0 0 0 0	0 23 0 0 0	24 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1	26 0 0 0	27 0 0 0	0 3.6 3.6 0	0 0	30 0 0 0 0	31 0 0 0 0	3.6 3.6 3.6 3.6	0 0 0	0 0 0	0 0 0	36 0 0 0	37 0 3.6 3.6 3.6	38 0 3.6 3.6 3.6	39 3.6 3.6 3.6 3.6	40 0 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	0 1.8 1.7 1.8 1.2 1.7	0 22 0 0 0 0	23 0 0 0	24 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1	26 0 0 0 0	27 0 0 0 0	0 3.6 3.6 0	0 0 0 0	30 0 0 0 0 0	31 0 0 0 0 0	3.6 3.6 3.6 3.6 3.6	0 0 0 0	0 0 0 0 0	0 0 0 0	36 0 0 0 0	37 0 3.6 3.6 3.6 3.6	38 0 3.6 3.6 3.6 3.6	39 3.6 3.6 3.6 3.6 3.6	40 0 0 0 0 0 3.6
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE	0 21 1.8 1.7 1.8 1.2 1.7	0 22 0 0 0 0 0	23 0 0 0 0	24 3.6 3.6 3.6 3.6 3.6 44	25 0.1 0.1 0.1 0.1 0.1	26 0 0 0 0 0	27 0 0 0 0 0	0 3.6 3.6 0 0	0 0 0 0 0	30 0 0 0 0 0 0 1C6	31 0 0 0 0 0 0 0	3.6 3.6 3.6 3.6 3.6	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	36 0 0 0 0 0	37 0 3.6 3.6 3.6 3.6	38 0 3.6 3.6 3.6 3.6	39 3.6 3.6 3.6 3.6 3.6	40 0 0 0 0 0 3.6
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP	21 1.8 1.7 1.8 1.2 1.7	0 22 0 0 0 0 0 0	23 0 0 0 0 0 0	24 3.6 3.6 3.6 3.6 3.6 44 3.6	25 0.1 0.1 0.1 0.1 0.1 0.1	26 0 0 0 0 0	27 0 0 0 0 0 0	0 3.6 3.6 0 0	0 0 0 0 0 0	30 0 0 0 0 0 0 1C6 50 3.6	31 0 0 0 0 0 0 0 0 0 51 1.8	3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	36 0 0 0 0 0 0	37 0 3.6 3.6 3.6 3.6 57	38 0 3.6 3.6 3.6 3.6 3.6	39 3.6 3.6 3.6 3.6 3.6 3.3	40 0 0 0 0 0 3.6 60 3.3
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	21 1.8 1.7 1.8 1.2 1.7	0 22 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 3.6 3.6	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 0.1	26 0 0 0 0 0 0	27 0 0 0 0 0 0	0 3.6 3.6 0 0 48 0	0 0 0 0 0 0 3.6 3.6	30 0 0 0 0 0 0 1C6 50 3.6	31 0 0 0 0 0 0 0 0 0 0 1.8	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0	0 0 0 0 0 0 54 3.4	0 0 0 0 0 0 55 0	36 0 0 0 0 0 0 0 56 1.5	37 0 3.6 3.6 3.6 3.6 57 0	38 0 3.6 3.6 3.6 3.6 0 1.6	39 3.6 3.6 3.6 3.6 3.6 3.7 59 3.3	40 0 0 0 0 3.6 60 3.3 1.7
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6	0 22 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 3.6 3.6	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.5	26 0 0 0 0 0 0	27 0 0 0 0 0 0 0	0 3.6 3.6 0 0 48 0 0.4	0 0 0 0 0 0 49 3.6 3.6 3.6	30 0 0 0 0 0 1C6 50 3.6 0	31 0 0 0 0 0 0 0 0 0 0 1 1.8 0	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0	0 0 0 0 0 0 55 0 1.7	36 0 0 0 0 0 0 0 56 1.5 1.8	37 0 3.6 3.6 3.6 3.6 3.6 1.5	38 0 3.6 3.6 3.6 3.6 3.6 1.6	39 3.6 3.6 3.6 3.6 3.6 3.7 1.7	40 0 0 0 0 3.6 60 3.3 1.7
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F	1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6	22 0 0 0 0 0 0 0 42 0 0	23 0 0 0 0 0 0 0 3.6 3.6 3.6 3.6	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4	26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3.6 3.6 0 0 48 0 0.4 0.4	0 0 0 0 0 0 3.6 3.6 3.6 3.6	30 0 0 0 0 0 0 1C6 50 3.6 0 0	31 0 0 0 0 0 0 0 0 0 0 1.8 0 0	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0 1.7	0 0 0 0 0 0 55 0 1.7 1.8	36 0 0 0 0 0 0 0 56 1.5 1.8 1.5	37 0 3.6 3.6 3.6 3.6 3.6 1.5 1.5	38 0 3.6 3.6 3.6 3.6 3.6 1.6 0	39 3.6 3.6 3.6 3.6 3.6 3.7 1.7	40 0 0 0 0 3.6 60 3.3 1.7 1.7
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW	1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6	22 0 0 0 0 0 0 0 42 0 0	23 0 0 0 0 0 0 0 3.6 3.6 3.6 3.6	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4	26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3.6 3.6 0 0 48 0 0.4 0.4	0 0 0 0 0 0 3.6 3.6 3.6 3.6	30 0 0 0 0 0 0 1C6 50 3.6 0 0	31 0 0 0 0 0 0 0 0 0 0 1.8 0 0 1.8	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0 1.7	0 0 0 0 0 0 55 0 1.7 1.8	36 0 0 0 0 0 0 0 56 1.5 1.8 1.5	37 0 3.6 3.6 3.6 3.6 3.6 1.5 1.5	38 0 3.6 3.6 3.6 3.6 3.6 1.6 0	39 3.6 3.6 3.6 3.6 3.6 3.7 1.7	40 0 0 0 0 3.6 60 3.3 1.7 1.7
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. REC F.F REW REF. NO.	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 3.6	22 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 43 3.6 3.6 3.6 3.6 3.6	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4	26 0 0 0 0 0 0 46 0 0.4 0.3 0.4	27 0 0 0 0 0 47 0 0.4 0.4 0.4	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4	0 0 0 0 0 0 3.6 3.6 3.6 3.6 3.6	30 0 0 0 0 0 1C6 50 3.6 0 0 1.8	31 0 0 0 0 0 0 0 0 0 51 1.8 0 0 1.8 1.8	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0 1.7 1.7	0 0 0 0 0 0 55 0 1.7 1.8 0	36 0 0 0 0 0 0 56 1.5 1.8 1.5 1.5	37 0 3.6 3.6 3.6 3.6 57 0 1.5 1.5 1.5	38 0 3.6 3.6 3.6 3.6 0 1.6 1.6 0	39 3.6 3.6 3.6 3.6 3.6 59 3.3 1.7 1.7 1.6 1.6	40 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE NO.	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 3.6	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 3.6 3.6 3.6 3.6 3.6	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 3.6	26 0 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3	27 0 0 0 0 0 0 47 0 0.4 0.4 0.4	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4 0.4	0 0 0 0 0 0 3.6 3.6 3.6 3.6 3.6	30 0 0 0 0 0 1C6 50 3.6 0 0 1.8 0	31 0 0 0 0 0 0 0 0 0 51 1.8 0 0 1.8 1.8	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0 1.7 1.7	0 0 0 0 0 0 55 0 1.7 1.8 0	36 0 0 0 0 0 0 56 1.5 1.8 1.5 1.5	37 0 3.6 3.6 3.6 3.6 3.6 1.5 1.5 1.5	38 0 3.6 3.6 3.6 3.6 3.6 0 1.6 0 0	39 3.6 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.7 1.6 1.6	40 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP STOP REC F.F REW REF. NO. MODE	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 3.6	26 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3	27 0 0 0 0 0 0 47 0 0.4 0.4 0.4 0.4	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4 0.4	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6	30 0 0 0 0 0 1C6 50 3.6 0 0 1.8 0 1C6 70	31 0 0 0 0 0 0 0 0 0 0 1.8 0 1.8 0 0 1.8 1.8	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0 1.7 1.7 1.7	0 0 0 0 0 0 55 0 1.7 1.8 0 0	36 0 0 0 0 0 0 56 1.5 1.8 1.5 1.5 1.5	37 0 3.6 3.6 3.6 3.6 3.6 1.5 1.5 1.5 1.5	38 0 3.6 3.6 3.6 3.6 3.6 0 1.6 0 0	39 3.6 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.7 1.6 1.6	40 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE	0 21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 3.6 3.6 0	0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 3.6	26 0 0 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3 0.4 0.3	27 0 0 0 0 0 0 47 0 0.4 0.4 0.4 0.4	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4 0.4	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6 3.6	30 0 0 0 0 0 1C6 50 3.6 0 0 1.8 0 1C6 70	31 0 0 0 0 0 0 0 0 0 0 1.8 1.8 0 0 1.8 1.8 001 71 3.7	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0 1.7 1.7 1.7 1.7	0 0 0 0 0 0 1.7 1.8 0 0 75 3.6 3.6	36 0 0 0 0 0 0 56 1.5 1.8 1.5 1.5 1.5	37 0 3.6 3.6 3.6 3.6 3.6 1.5 1.5 1.5 1.5 1.5	38 0 3.6 3.6 3.6 3.6 3.6 0 1.6 0 0	39 3.6 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.7 1.6 1.6	40 0 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 80 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REF. NO. MODE STOP PLAY REC REF. REW REF. NO. MODE STOP PLAY REC	0 21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 3.6 0 0	0 22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 0 0	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 3.6 65 0	26 0 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3 0.4 0.3	27 0 0 0 0 0 0 47 0 0.4 0.4 0.4 0.4	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4 0.4	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	30 0 0 0 0 0 1C6 50 3.6 0 0 1.8 0 1C6 70 0	31 0 0 0 0 0 0 0 0 0 0 0 1.8 0 0 1.8 0 1.8 0 1.8 0 3.7 3.7 3.3 3.2	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3.6 3.6 3.6	0 0 0 0 0 0 54 3.4 0 1.7 1.7 1.7 1.7	0 0 0 0 0 0 1.7 1.8 0 0 75 3.6 3.6 3.6	36 0 0 0 0 0 0 0 1.5 1.8 1.5 1.5 1.5 0 0	37 0 3.6 3.6 3.6 3.6 3.6 1.5 1.5 1.5 1.5 1.5 3.3	38 0 3.6 3.6 3.6 3.6 3.6 0 1.6 0 0 78 3.6 2.9 2.8	39 3.6 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.7 1.6 1.6	40 0 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 80 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REF. NO. MODE STOP PLAY REF. NO.	21 1.8 1.7 1.8 1.2 1.7 3.6 3.6 3.6 3.6 3.6 0 0	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 3.6 3.6 3.6 3.6 63 0 0	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 3.6 65 0 0 1.5 0	26 0 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3 0.4 0.3	27 0 0 0 0 0 0 47 0 0.4 0.4 0.4 0.4 0.4	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4 0.4 0.4	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.3 3.3	30 0 0 0 0 0 0 1C6 50 3.6 0 0 1.8 0 1.0 1.0 3.3	31 0 0 0 0 0 0 0 0 0 1.8 1.8 0 0 1.8 1.8 3.7 3.3 3.2 3.3 3.3	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0 1.7 1.7 1.7 1.7 1.7 3.6 1.5 1.8 3.6	0 0 0 0 0 0 55 0 1.7 1.8 0 0 75 3.6 3.6 3.6	36 0 0 0 0 0 0 56 1.5 1.8 1.5 1.5 1.5 0 0	37 0 3.6 3.6 3.6 3.6 57 0 1.5 1.5 1.5 1.5 1.5 3.6 3.6	38 0 3.6 3.6 3.6 3.6 58 0 1.6 1.6 0 0	39 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.6 1.6 79 3.7 3.6 3.6 3.6 3.6	40 0 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 80 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW	21 1.8 1.7 1.8 1.2 1.7 3.6 3.6 3.6 3.6 3.6 0 0	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 3.6 3.6 3.6 3.6 63 0 0	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 3.6 65 0 0 1.5 0	26 0 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3 0.4 0.3	27 0 0 0 0 0 0 47 0 0.4 0.4 0.4 0.4 0.4	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4 0.4 0.4	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.3 3.3	30 0 0 0 0 0 1C6 50 3.6 0 0 1.8 0 1.0 1.0 1.0	31 0 0 0 0 0 0 0 0 0 1.8 1.8 0 0 1.8 1.8 3.7 3.3 3.2 3.3 3.3	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 54 3.4 0 1.7 1.7 1.7 1.7 1.7 3.6 1.5 1.8 3.6	0 0 0 0 0 0 55 0 1.7 1.8 0 0 75 3.6 3.6 3.6	36 0 0 0 0 0 0 56 1.5 1.8 1.5 1.5 1.5 0 0	37 0 3.6 3.6 3.6 3.6 57 0 1.5 1.5 1.5 1.5 1.5 3.6 3.6	38 0 3.6 3.6 3.6 3.6 58 0 1.6 1.6 0 0	39 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.6 1.6 79 3.7 3.6 3.6 3.6 3.6	40 0 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 80 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 3.6 0 0	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	25 0.1 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 3.6 65 0 0 0 1.5 0 0	26 0 0 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3 3.6 3.6 3.6 3.6	27 0 0 0 0 0 47 0 0.4 0.4 0.4 0.4 0.4 0 0 0	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4 0.4 0.4 0.0 0	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6 3.3 3.3 3.3	30 0 0 0 0 0 0 1C6 50 3.6 0 0 1.8 0 1.0 1.0 1.0 1.0 1.0	31 0 0 0 0 0 0 0 0 0 1.8 1.8 0 1.8 1.8 0 1.8 1.8 0 1.8 1.8 0 1.8 1.8 0 0 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 3.6 3.6 3.6 3.6	0 0 0 0 0 0 54 3.4 0 1.7 1.7 1.7 1.7 3.6 1.5 1.8 3.6 3.6	0 0 0 0 0 0 55 0 1.7 1.8 0 0 3.6 3.6 3.6 2.6	36 0 0 0 0 0 0 0 0 0 1.5 1.8 1.5 1.5 1.5 0 0 0 0	37 0 3.6 3.6 3.6 3.6 57 0 1.5 1.5 1.5 77 3.6 3.3 3.3 2.8	38 0 3.6 3.6 3.6 3.6 0 1.6 1.6 0 0 78 3.6 2.9 2.8 2.8	39 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.6 1.6 3.7 3.6 3.6 3.6 3.6 3.6 3.6	40 0 0 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 80 0 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO.	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 0 0 0	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 1.5 1.5 1.5 1.5	25 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.4 0.4 3.6 0 0 0 0.5	26 0 0 0 0 0 0 0 0 0.4 0.3 0.4 0.3 66 3.6 3.6 3.6 3.6 3.6	27 0 0 0 0 0 0 0 47 0 0.4 0.4 0.4 0.4 0.4 0 0 0	0 3.6 3.6 0 0 0 0.4 0.4 0.4 0.4 0.4 0.0 0 0 0	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6 3.3 3.3 3.3 3.3	30 0 0 0 0 0 1C6 3.6 0 0 1.8 0 1.0 1.0 1.0 1.0 1.0 1.0	31 0 0 0 0 0 0 0 0 0 1.8 1.8 0 1.8 1.8 0 1.8 1.8 0 1.8 1.8 0 1.8 1.8 0 1.8 1.8 0 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 3.6 3.6 3.6 1.1	0 0 0 0 0 0 0 54 3.4 0 1.7 1.7 1.7 1.7 1.5 1.8 3.6 3.6 94	0 0 0 0 0 0 0 1.7 1.8 0 0 3.6 3.6 3.6 2.6	36 0 0 0 0 0 0 0 0 0 0 1.5 1.8 1.5 1.5 1.5 1.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 0 3.6 3.6 3.6 3.6 57 0 1.5 1.5 1.5 1.5 2.8 3.3 3.3 3.3 3.3	38 0 3.6 3.6 3.6 58 0 1.6 1.6 0 0 0 78 3.6 2.9 2.8 2.8	39 3.6 3.6 3.6 3.6 3.6 3.6 59 3.3 1.7 1.7 1.6 1.6 1.6 3.6 3.6 3.6 3.6 3.6	40 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 0 0
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW RET. NO. MODE STOP	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 3.6 0 0 0 0	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 1.5 1.5 1.5 1.5	25 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 0.4 0.4 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26 0 0 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.3 0.3 0.6 0.3 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	27 0 0 0 0 0 0 47 0 0.4 0.4 0.4 0.4 0 0 0 0 0 0 0 0 0 0 0	0 3.6 3.6 0 0 0 0.4 0.4 0.4 0.4 0.4 0.0 0 0 0 0 0	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6 3.3 3.3 3.3 3.3	30 0 0 0 0 0 0 1C6 50 0 0 1.8 0 1.8 0 0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	31 0 0 0 0 0 0 0 0 0 1.8 1.8 0 1.8 0 1.8 3.3 3.3 3.3 3.3 001	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 3.6 3.6 3.6 1.1	0 0 0 0 0 0 0 54 3.4 0 1.7 1.7 1.7 1.7 1.5 1.8 3.6 3.6 94	0 0 0 0 0 0 0 1.7 1.8 0 0 0 75 3.6 3.6 3.6 2.6	36 0 0 0 0 0 0 0 0 0 1.5 1.8 1.5 1.5 1.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 0 3.6 3.6 3.6 3.6 57 0 1.5 1.5 1.5 1.5 2.8 3.3 3.3 2.8 97 3.7	38 0 3.6 3.6 3.6 58 0 1.6 1.6 0 0 0 78 3.6 2.9 2.8 2.8 2.8 98 3.7	39 3.6 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.6 79 3.7 3.6 3.6 3.6 3.6 3.6 0 99	40 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 0 0 0 0 0 0 3.3 1.7 1.7 1.7 1.6 1.6 1.6 1.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 0 0 0 0	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 1.5 1.5 1.5 1.5 1.5	25 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 0.4 0.5 0.5 0.0 0.5 0.0 0.5 0.0 0.0	26 0 0 0 0 0 0 0 46 0 0.4 0.3 0.4 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	27 0 0 0 0 0 0 47 0 0 4 0.4 0.4 0.4 0 0 0 0 0 0 0 0 0 0 0	0 3.6 3.6 0 0 0 48 0 0.4 0.4 0.4 0.4 0 0 0 0 0 0 0	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.3 3.3 3.3 3.3 3.3	30 0 0 0 0 0 1C66 50 3.6 0 0 1.8 0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	31 0 0 0 0 0 0 0 0 0 0 1.8 0 0 1.8 0 1.8 0 1.8 0 1.8 0 0 1.8 0 0 1.8 0 0 1.8 0 0 1.8 0 0 0 0 0 0 0 0 0 0 0 0 0	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3.6 3.6 3.6 3.6 1.1	0 0 0 0 0 0 0 1.7 1.7 1.7 1.7 1.5 1.8 3.6 3.6 1.8 3.6	0 0 0 0 0 0 1.7 1.8 0 0 3.6 3.6 3.6 2.6	36 0 0 0 0 0 0 0 0 0 0 0 0 0 1.5 1.8 1.5 1.5 1.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 0 3.6 3.6 3.6 3.6 3.6 57 0 1.5 1.5 1.5 1.5 3.3 3.3 2.8 3.3	38 0 3.6 3.6 3.6 3.6 0 1.6 1.6 0 0 78 3.6 2.9 2.8 2.8 98 3.7 3.7	39 3.6 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.6 79 3.7 3.6 3.6 3.6 3.6 3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	40 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 80 0 0 0 0 100 3.6
REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW RET. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC F.F REW REF. NO. MODE STOP PLAY REC REW REF. NO. MODE STOP PLAY REC	21 1.8 1.7 1.8 1.2 1.7 41 3.6 3.6 3.6 3.6 3.6 0 0 0 0 0	22 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	25 0.1 0.1 0.1 0.1 0.1 0.1 45 0 0.5 0.4 0.4 0.5 0.5 0.0 0.5 0.0 0.5 0.0 0.0	26 0 0 0 0 0 0 0 0 0 0 0 0 0	27 0 0 0 0 0 0 0 47 0 0 0 4 0.4 0.4 0.4 0 0 0 0 0 0 0 0 0 0	0 3.6 3.6 0 0 0 0.4 0.4 0.4 0.4 0.0 0 0 0 0 0 0 0	0 0 0 0 0 3.6 3.6 3.6 3.6 3.6 3.6 3.3 3.3 3.3 3.3	30 0 0 0 0 0 0 1.666 50 0 0 1.8 0 0 1.0 1.0 3.3 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 0 0 0 0 0 0 0 0 0 1.8 0 0 1.8 0 0 1.8 3.7 3.3 3.2 3.3 3.3 3.3 001 01 01 01 01 01 01 01 01 0	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3.6 3.6 3.6 3.6 1.1	0 0 0 0 0 0 1.7 1.7 1.7 74 3.6 1.5 1.8 3.6 3.6 94 1.8 0.3	0 0 0 0 0 0 1.7 1.8 0 0 3.6 3.6 3.6 2.6	36 0 0 0 0 0 0 0 0 0 1.5 1.5 1.5 1.5 1.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	37 0 3.6 3.6 3.6 3.6 57 0 1.5 1.5 1.5 1.5 3.3 3.3 2.8 3.3 97 3.7 3.7 3.6	38 0 3.6 3.6 3.6 3.6 0 1.6 1.6 0 0 78 3.6 2.9 2.8 2.8 2.8 98 3.7 3.7	39 3.6 3.6 3.6 3.6 3.6 3.6 3.7 1.7 1.6 1.6 79 3.7 3.6 3.6 3.6 3.6 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	40 0 0 0 0 0 3.6 60 3.3 1.7 1.7 1.6 1.6 80 0 0 0 0 100 3.6 1.7

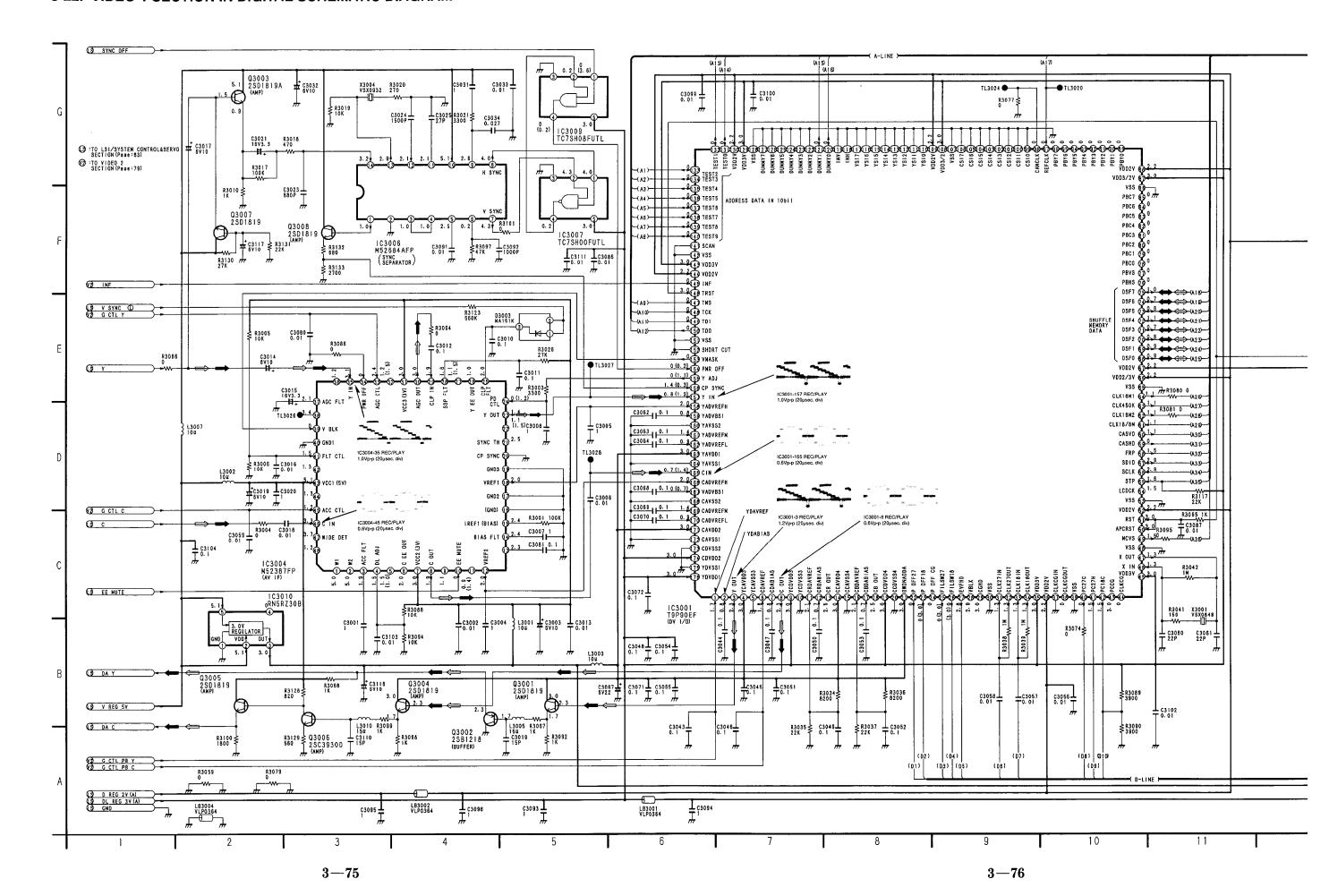
REF. NO.										ICE	001									
MODE .	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	0	0	3.6	3.3	0	3.3	0	0	0	0	0	0	0	1.8	3.6	3.6	0	0	0	3.3
PLAY	0	3.6	1.6	1.7	1.6	1.6	1.6	1.6	0	0	0	0	0	1.8	3.6	3.6	0	0	0	2.7
REC	0	3.6	1.7	1.6	1.6	1.7	1.6	1.6	0	0	0	0	0	1.8	3.6	3.6	0	0	0	2.7
F.F	0	3.6	1.6	1.6	1.6	1.6	0	3.3	0	0	0	0	0	1.8	3.6	3.6	0	0	0	2.1
REW	0	3.6	1.6	1.6	1.6	1.6	2.9	3.3	0	0	0	0	0	1.8	3.6	3.6	0	0	0	1.0
REF. NO.		3.0	1.0	1.0	1.0	1.0	2.5	0.0			001			1.0	0.0	0.0	_ <u> </u>			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	0	0	0	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.5	2.2	0	3.0	3.6	3.6	3.6	1.7	1.7
PLAY	0.1	0.1	0.1	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.3	0	0	0	3.6	3.6	3.6	1.6	1.6
REC	0.1	0.1	0.1	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.2	0	0	0	3.6	3.6	3.6	1.7	1.7
F.F	0.1	0	0	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.2	0	0	0	3.6	3.6	3.6	1.6	1.6
REW	0.1	0.1	0	3.7	3.7	3.7	3.6	3.6	3.6	0	0	2.2	0	0	0	3.6	3.6	3.6	1.7	1.6
REF. NO.		1 0.1		0.7	0.7	0.7	0.0	1 0.0	0.0	IC6						0.0	1 0.0	0.0		
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	T			
STOP	1.7	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1,7	0	3.6				
PLAY	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.5	1.5	1.5	1.6	1.6	0	3.6				
REC	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0	3.6	<b> </b>			$\vdash$
F.F	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.6	1.7	1.7	1.7	1.6	0	3.6	<b>†</b>			
REW	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0	3.6			· · · · · ·	
REF. NO.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		002	1.0	1.0	1.0		0.0	I			
MODE	1	2	3	4	5					,	<u> </u>	Ï				1	Γ			$\Box$
STOP	2.7	3.6	0	0	3.4	-														
PLAY	2.7	3.6	0	0	3.4										-					
REC	2.7	3.6	0	0	3.4															
F.F	2.7	3.6	0	0.9	3.4									-						
REW	2.7	3.6	0	0.9	3.4									_						
REF. NO.		0.0		0.0	0.4					IC6	003				·	L		·		
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14			T			
STOP	3.7	0	0	0	3.3	0	0	0	3.3	0	3.3	0	3.7	3.7						
PLAY	0.7	3.7	1.7	0	1.6	0	0	0	1.6	0	1.6	3.7	0	3.7			<b></b>			
REC	0	3.7	1.6	0	1.6	0	0	0	1.6	0	1.6	3.7	0	3.7						
F.F	0	3.7	1.5	0	1.5	0	0	0	1.5	0	1.6	3.7	0	3.7						
REW	3.7	0	1.5	0	1.5	0	0	0	1.6	0	1.6	0	3.7	3.7						
REF. NO.					L	004						L			IC6	005				
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5					
STOP	0	0	0	0	3.6	3.7	3.7	3.7	-		0	0	0	0	3.7	·				
PLAY	1.6	1.6	0	0	3.7	3.7	3.7	3.7			1.6	1.6	0	1.8	3.7					
REC	1.6	1.6	0	0	3.7	3.7	3.7	3.7			1.6	1.6	0	1.8	3.7					
F,F	3.3	0	3.7	0	0	3.7	3.7	3.7			0	0	0	0	3.7					
REW	0	3.3	0	0	3.7	3.7	3.7	3.7			0	3.3	0	3.7	3.7					
REF. NO.	-									IC6	006									
MODE	1	2	3	4	5	6	7	8												
STOP	1.8	1.8	1.8	0	0	0	0	3.6												
PLAY	1.8	1.8	1.8	0	0	0	0	3.6										·		
REC	1.8	1.8	1.8	0	0	0	0	3.6												
F.F	1.8	1.8	1.8	0	0	0	0	3.6												
REW	1.8	1.8	1.8	0	0	0	0	3.6		,						-				

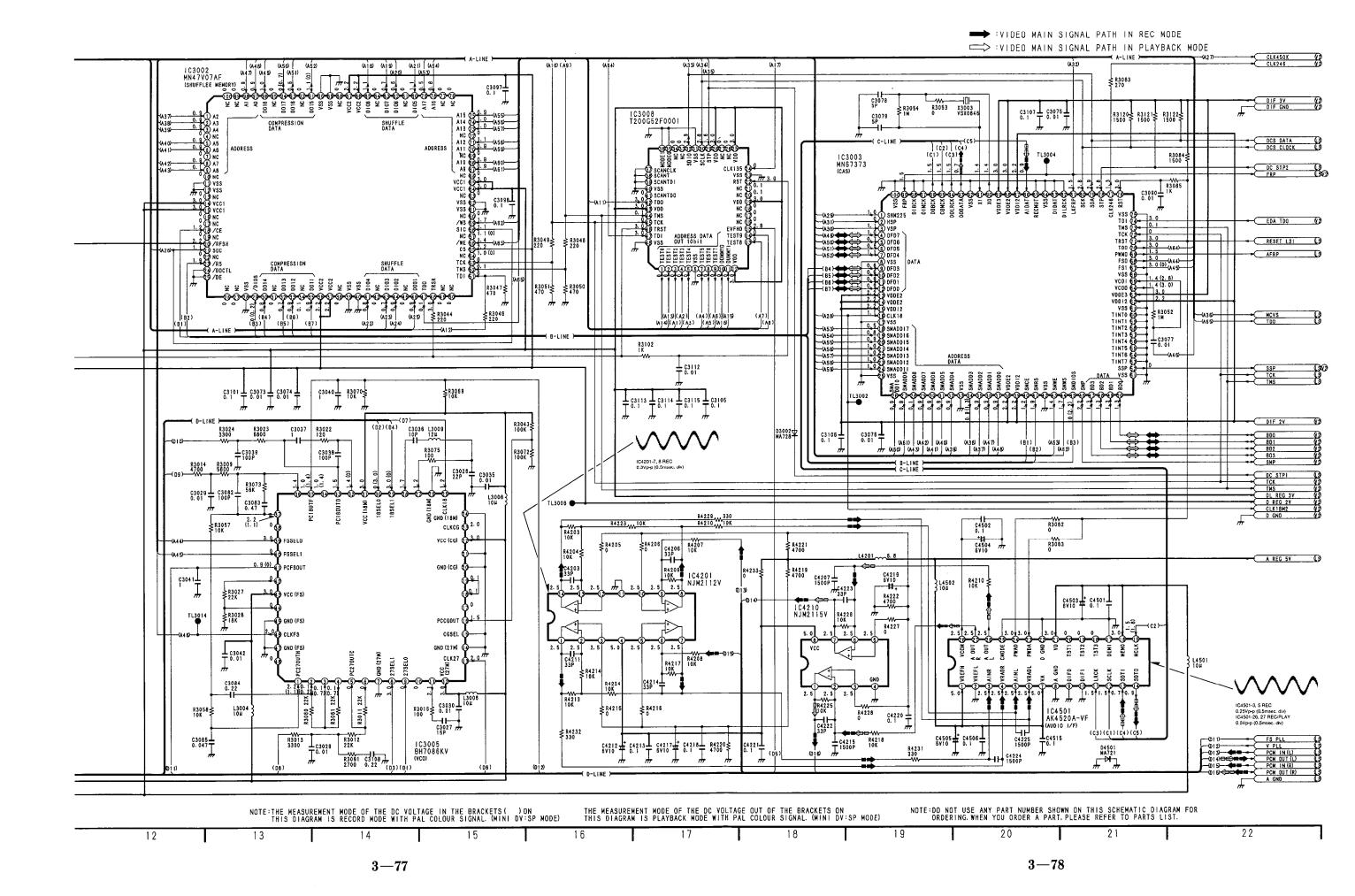
### LSI/SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (Mini DV : SP MODE)

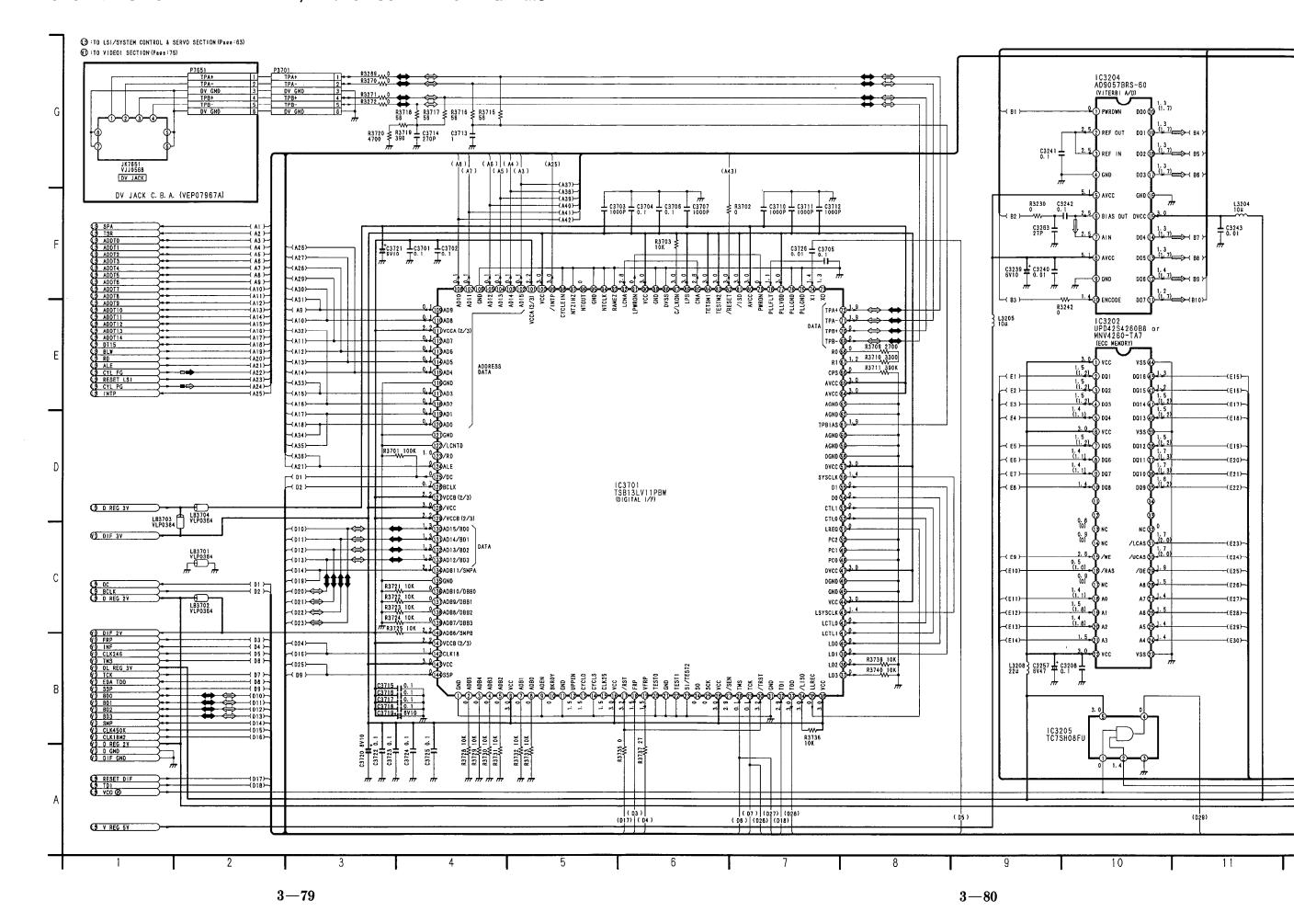
REF. NO.		Q6001												
MODE	Е	С	В										 	
STOP	3.7	3.7	3.6											
PLAY	3.7	3.7	3.6											
REC	3.7	3.7	3.6											
F.F	3.7	3.7	3.6											
REW	3.6	3.7	3.6						<u> </u>		<u> </u>			
REF. NO.		QR2001			QR6001					 				
MODE	Е	С	В	E	С	В	L	<u> </u>						
STOP	3.7	0	3.6	0	3.4	0								
PLAY	3.7	0	3.6	0	3.4	0								
REC	3.7	0	3.6	0	3.4	0						<u></u>		
F.F	3.7	0	3.6	0	3.4	0								
REW	3.7	0	3.6	0	3.4	0		]						

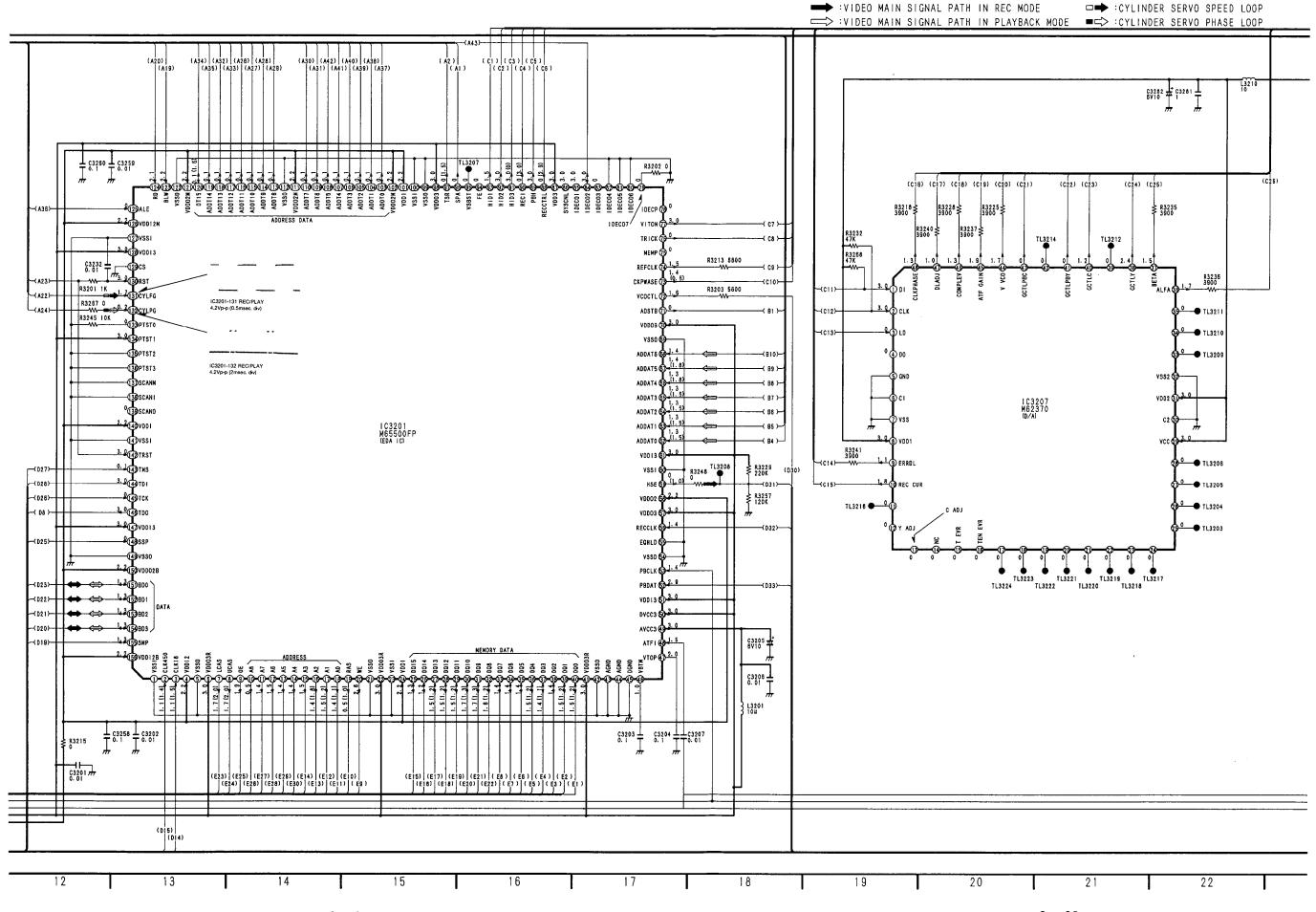
IC3004 M52387FP (Y=1Vpp) Y-EE DOSTAL AGC AMP SYNC TIP AMP **-**23 Y 0∪⊺ PWR OFF® PEDESTAL CLAMP AGC DET GCTLY 🕄 DC CTL ∰ V REF1 SYNC SEP 1 KEYED PULSE (B) GND BIAS (BAND GAP) LPF ADJ 🏟 CLAMP PULSE 🛈 V REF2 PULSE GEN ACC DET GCTLC (4) -20 CP SYNC (0. 15/0. 32) 8PF AMP с іи 🏟 -(15) IREF IREG WIDE EE-AMP V-BLANK (1) EE WITE DE VCC2 ( GND2 (C) ¥

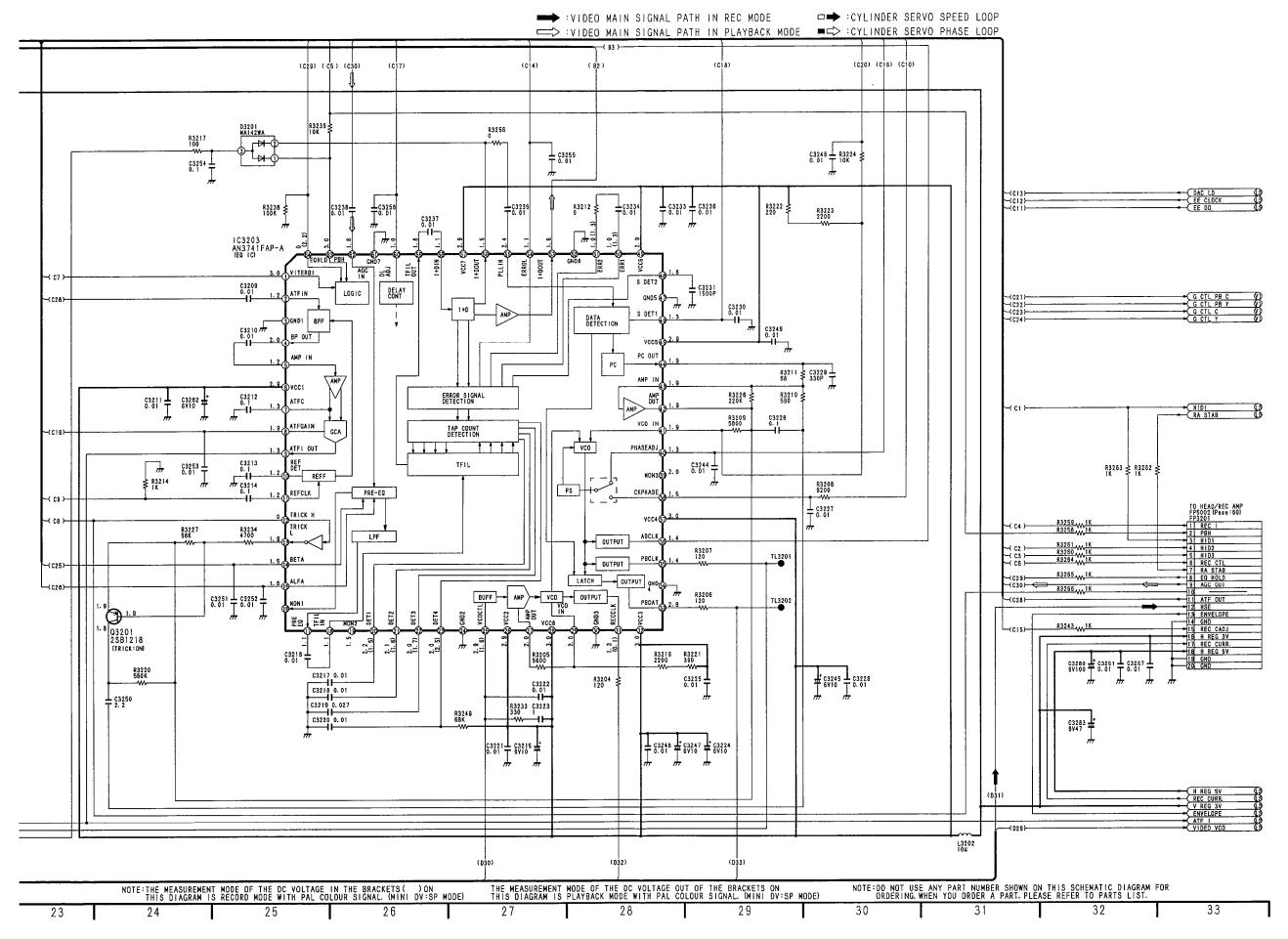




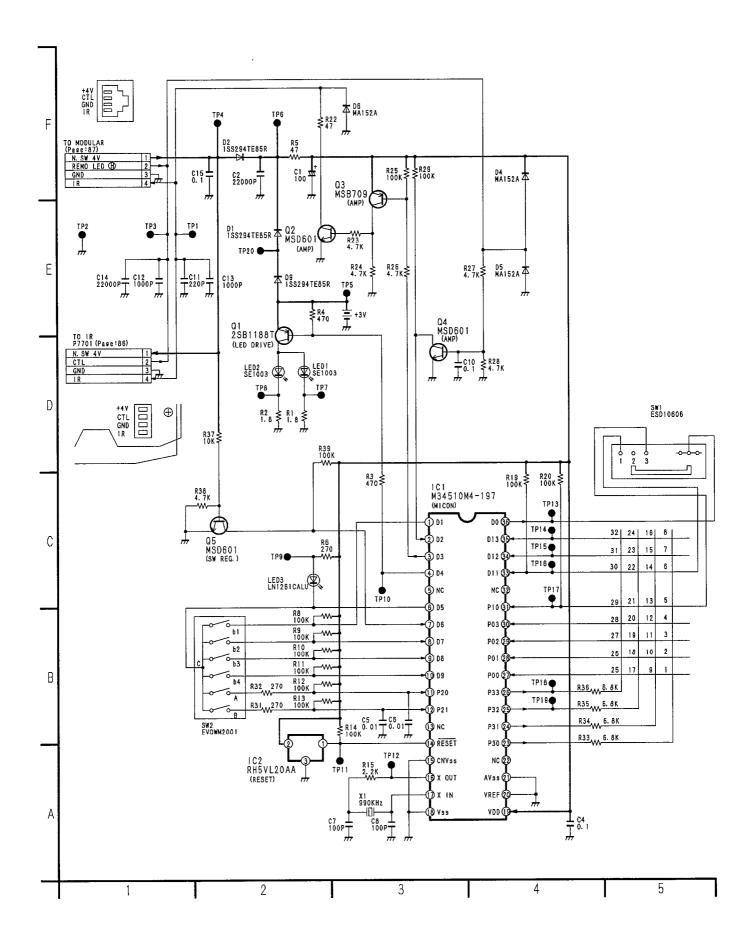




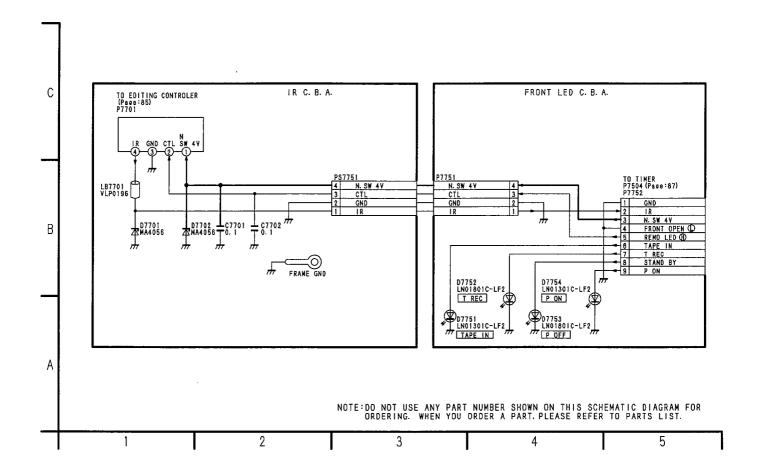




#### 3-24. EDITING CONTROLLER SCHEMATIC DIAGRAM

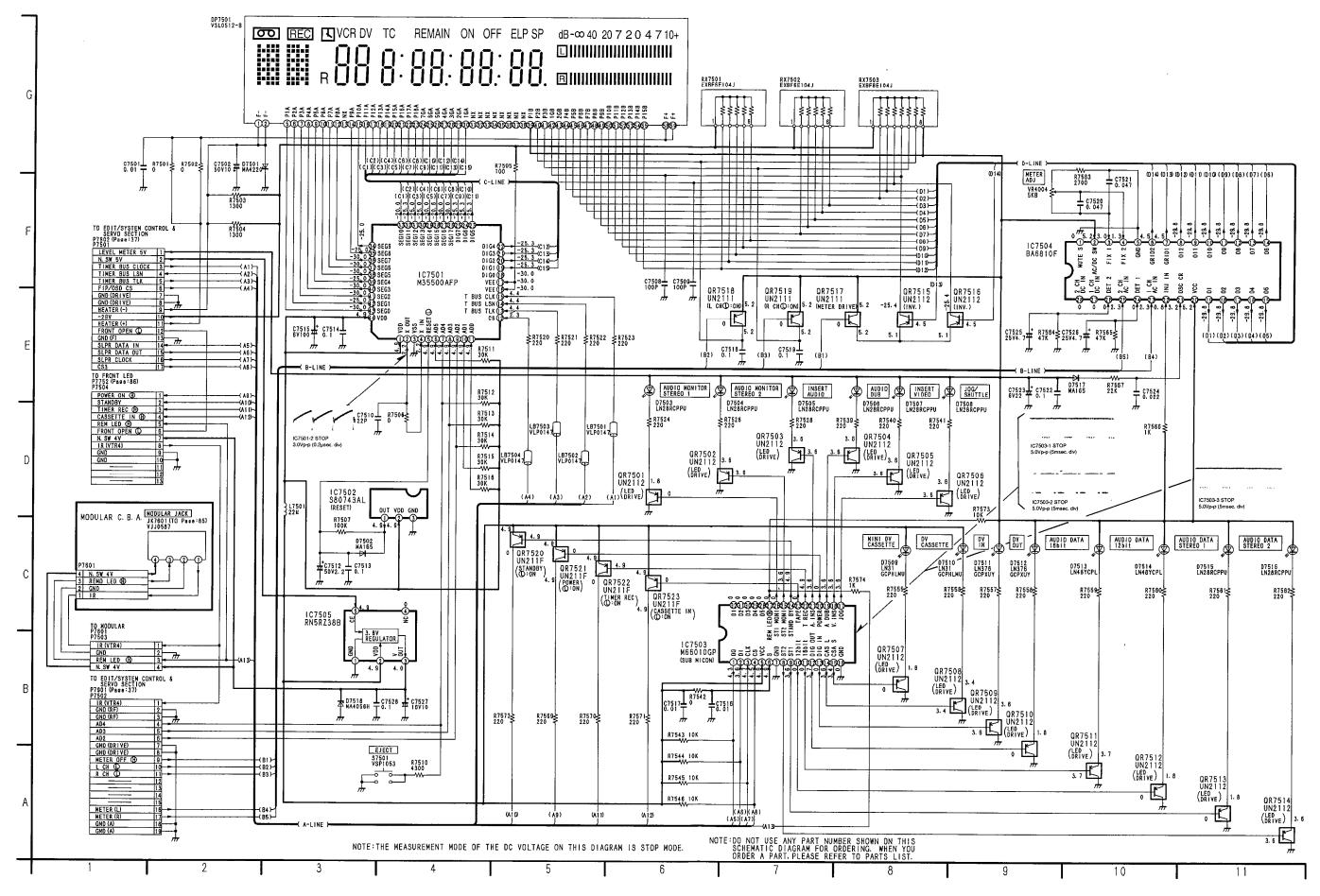


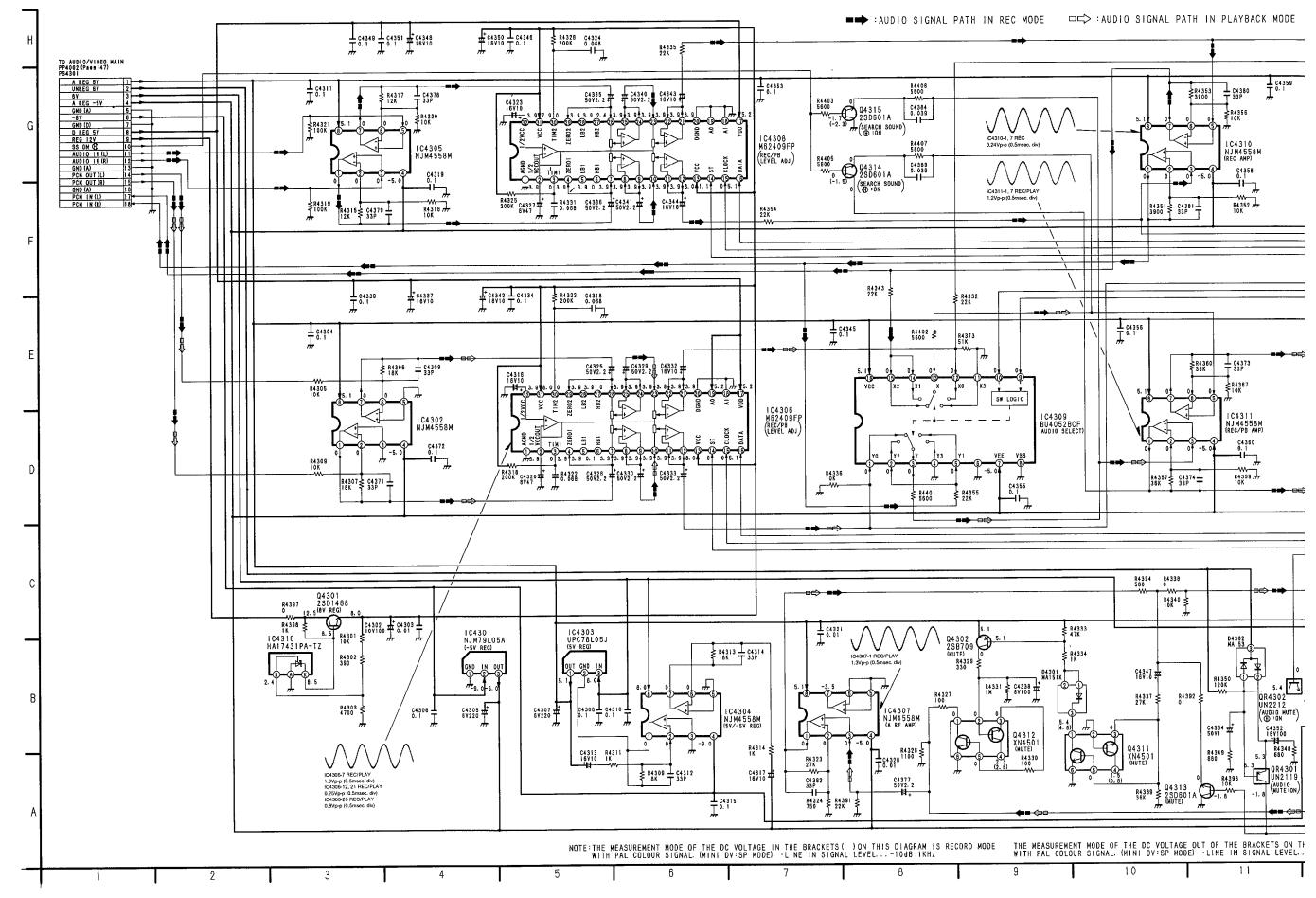
#### 3-25. IR, FRONT LED SCHEMATIC DIAGRAMS



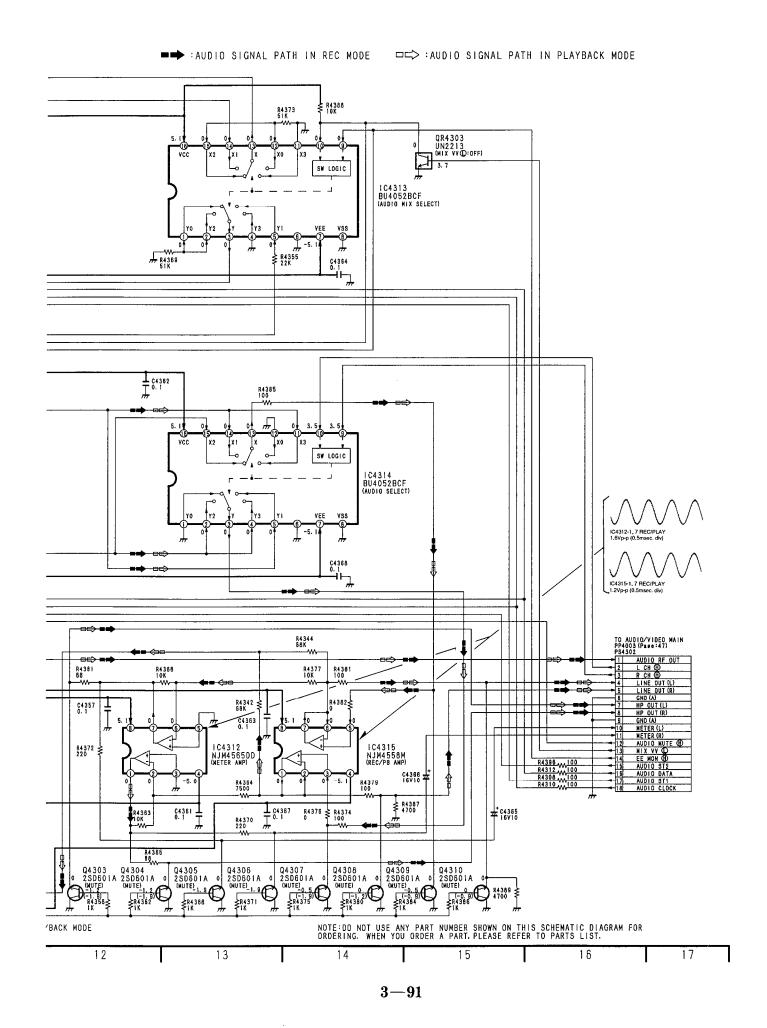
#### IC7503 (M66010GP): SUB MICON

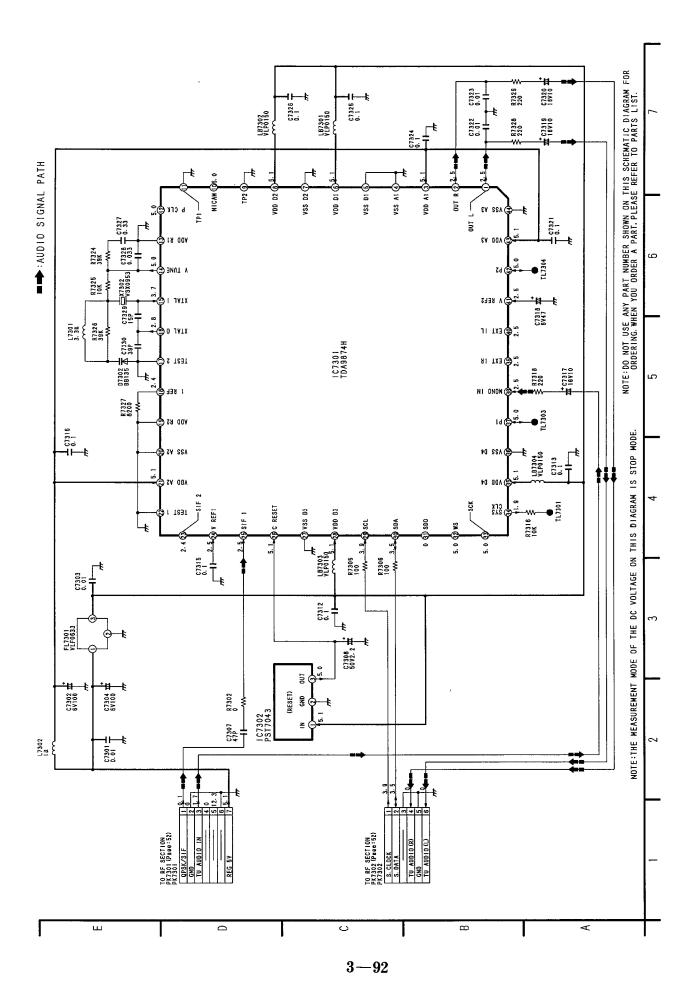
PIN. NO.	SIGNAL NAME	1/0	EXPLANATION	PIN. NO.	SIGNAL NAME	1/0	EXPLANATION
1	DO	0	Serial Data	17	EDIT	0	LED ON Edit
2	DI	1	Serial Data	18	V INS	0	LED ON Video Insert
3	CLK	1	Serial Clock	19	A DUB	0	LED ON Audio Dubbing
4	CS	- 1	I/O Chip Select	20	POWER	0	LED ON Power
5	VCC	1		21	A INS	0	LED ON Audio Insert
6		-		22	T REC	0	LED ON Timer Rec
7	GND			23	TAPE	0	LED ON Cassette In
8	ST2	0	LED ON Data Stereo 2	24	STAND BY	0	LED ON Stand By
9	ST1	0	LED ON Data Stereo 1	25	ST2 MONI	0	LED ON Monitor Stereo 2
10	12bit	0	LED ON 12 Bit	26	ST1 MONI	0	LED ON Monitor Stereo 1
11	16bit	0	LED ON 16 Bit	27	REM LED	0	LED ON
12	DIG OUT	0	LED ON DV Output	28		0	
13	DIG IN	0	LED ON DV Input	29			
14	CAS L	0	LED Normal Cassette	30			
15	CASS	0	LED On Mini Cassette	31			
16	GND			32		—	

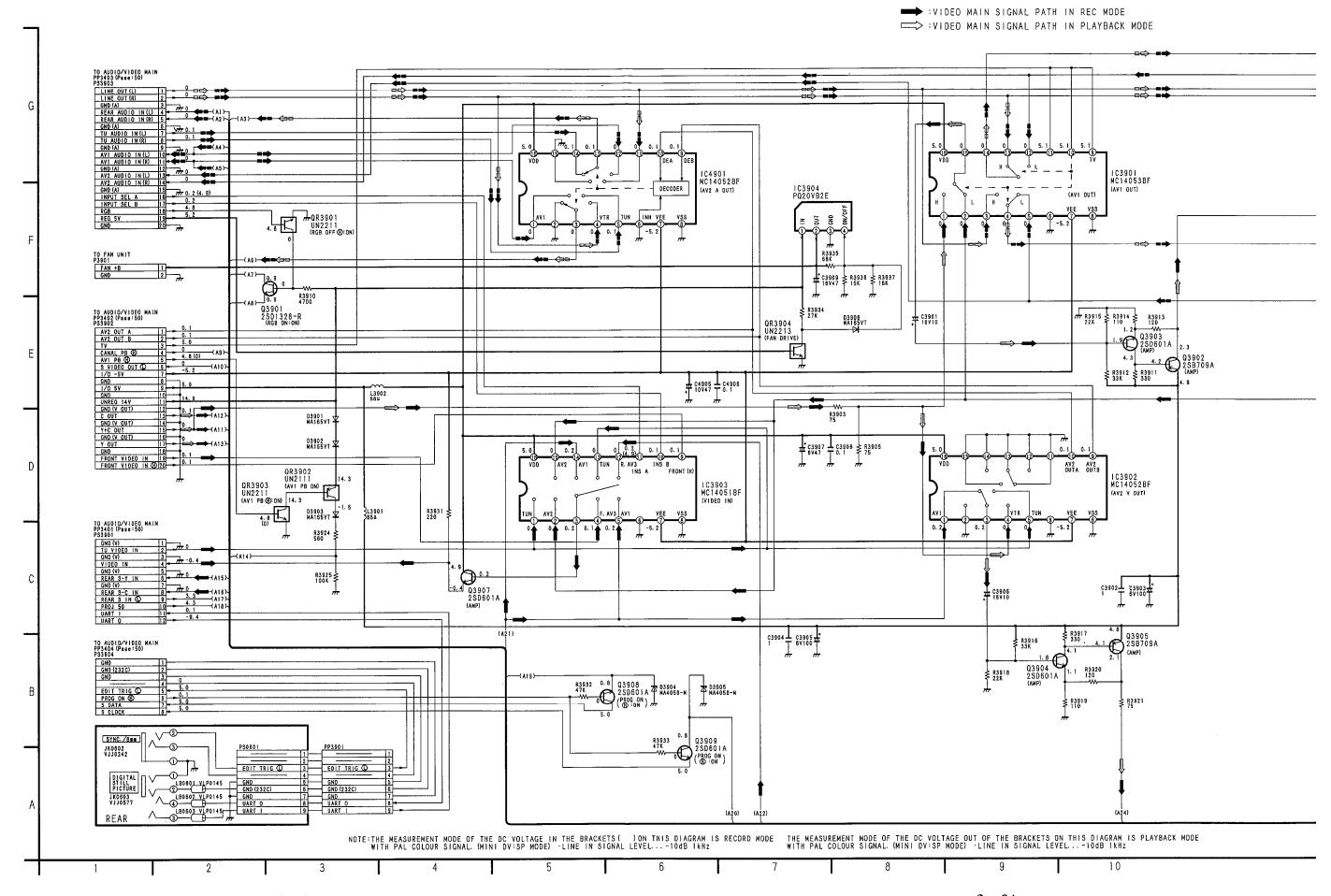


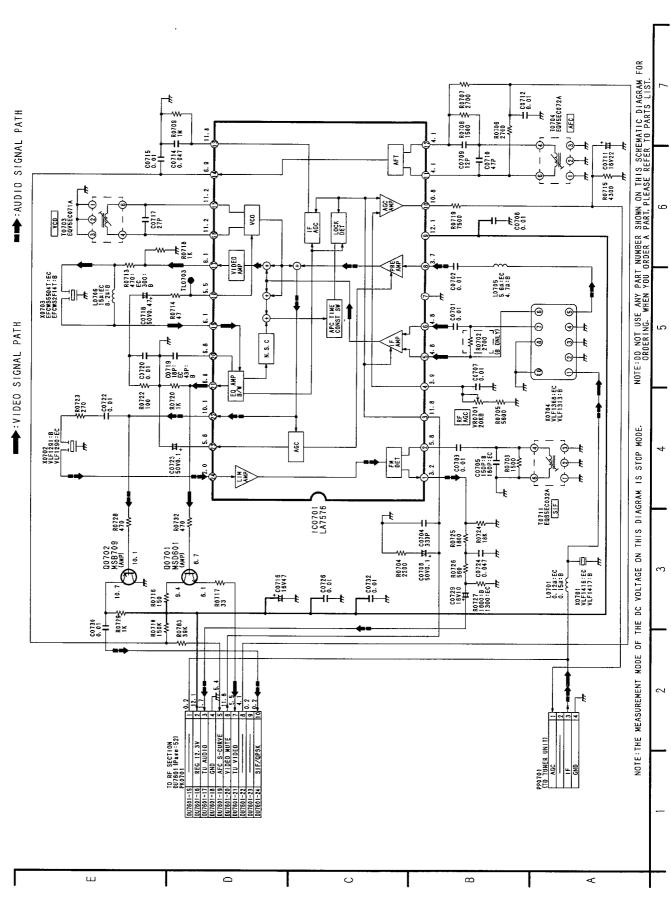


#### 3-28. NICAM DECODER SCHEMATIC DIAGRAM



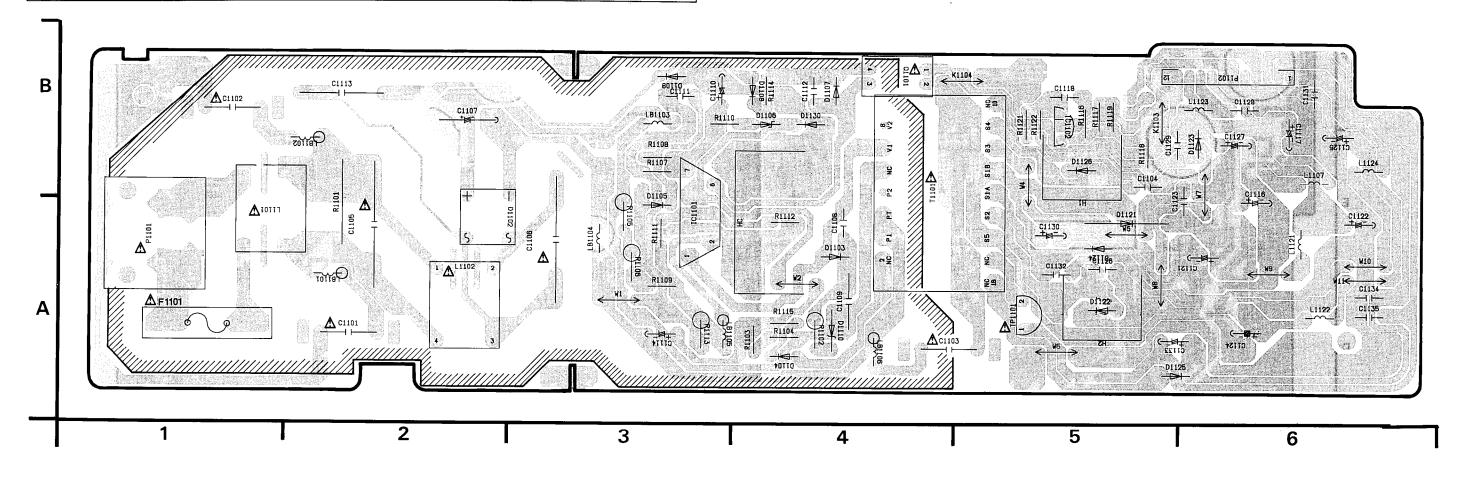




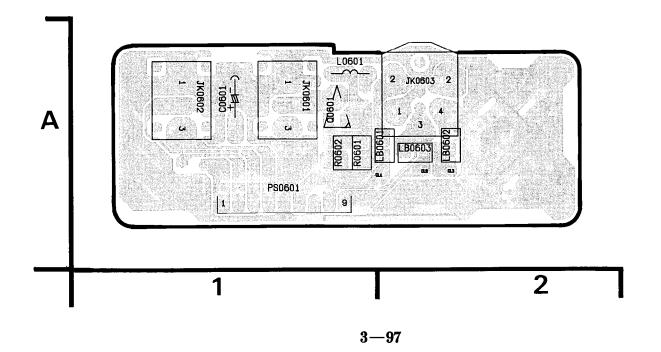


#### 3-31. POWER SUPPLY C.B.A. (VEP01814A)

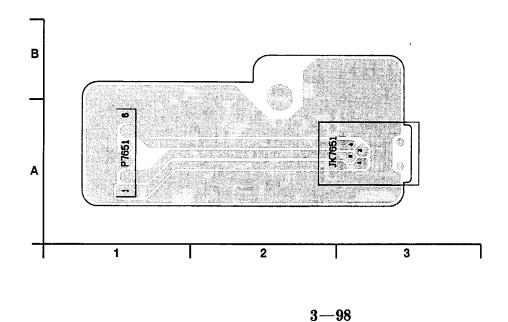
THE STRIPED FRAME INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

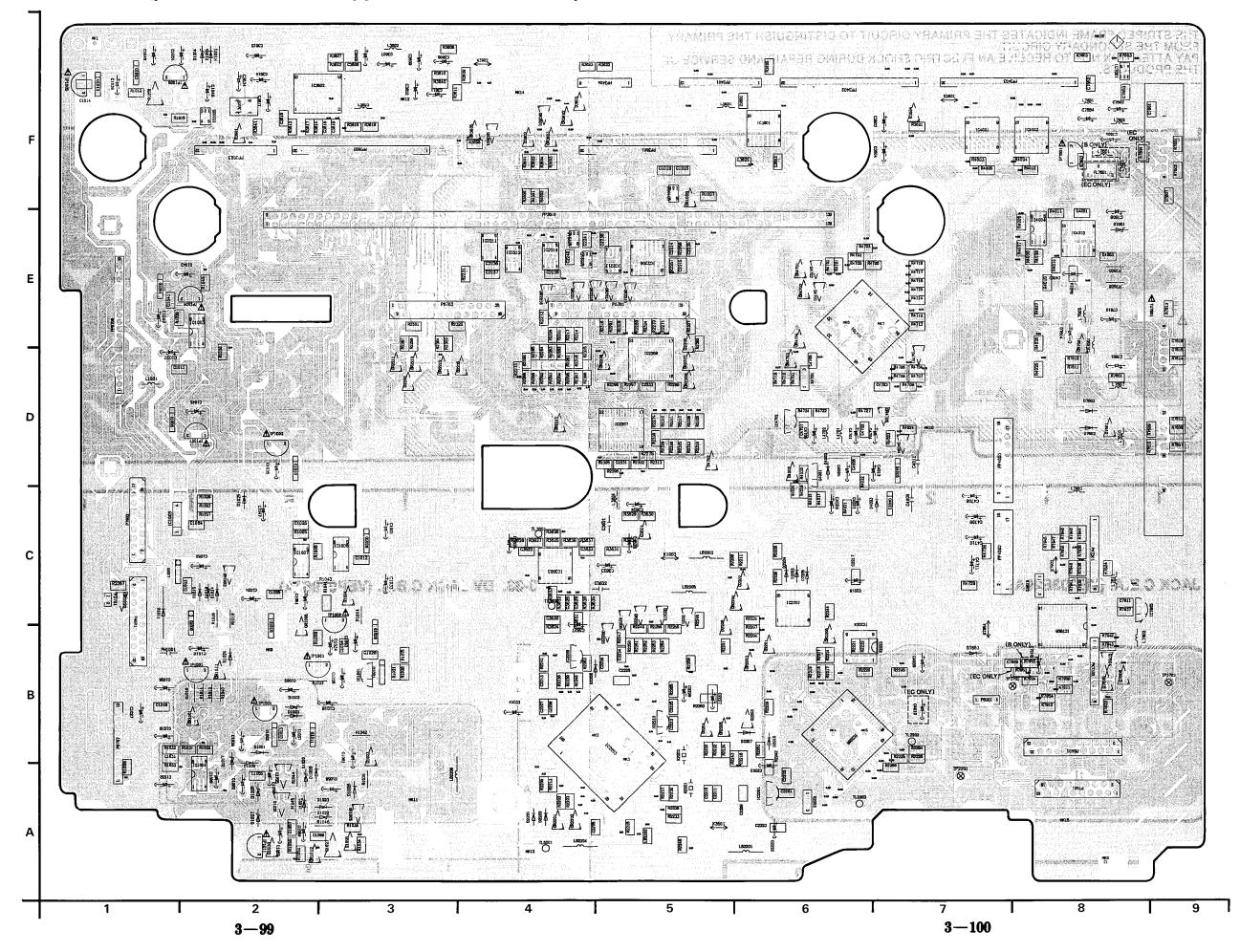


#### 3-32. REAR JACK C.B.A. (VEP03E29A)



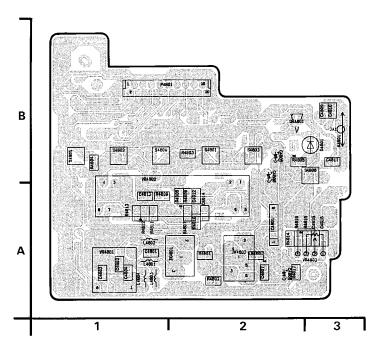
#### 3-33. DV JACK C.B.A. (VEP07967A)



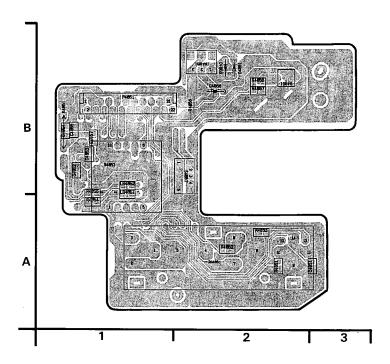


#### 3-35. FRONT (L) C.B.A. (VEP04695B)

,		MAIN C	B.A.		
Transistor		QR2210	D-3	IP	
Q1001	B-3	QR2211	D-3	IP1001	B-2
Q1002	B-2	QR2212	D-3	IP1002	D-2
Q1003	F-1	QR2213	D-4	IP1002	B-2
Q1003	E-1	QR2214	E-5	IP1003	B-2 B-2
Q1005	D-1	QR2215	E-5		
Q1008	F-1	QR2216	E-4	IP1005	F-1
Q1008		QR2217	E-4	IP1006	E-2
	C-2	QR2218	E-4	IP1007	D-2
Q1010	D-2	QR2220	B-5	IP1008	C-3
Q1011	B-2	QR2221	C-5	IP1009	F-1
Q1012	F-1	QR2222	C-1	IP1011	A-2
Q1017	C-1	QR3601	F-4	IP7601	F-8
Q1018	C-2	QR3602	F-4	Test Point	
Q1020	A-3	QR3603	F-4		
Q1023	B-3	QR3604	F-4	TL2202	B-7
Q1024	C-3	QR3605	F-4	TL2203	A-6
Q1025	A-2		E-6	TL3601	C-4
Q1026	A-2	QR4701		TL3602	C-4
Q1027	A-3	QR4702	E-6	TL6001	A-4
Q1028	C-3	QR4703	D-6	TP2201	A-7
Q1029	B-3	QR4704	E-6	TP3701	B-7
Q1030	A-2	QR4706	D-7	TP3702	B-9
Q2201	B-6	QR7601	D-8	110702	D-9
Q2202	C-6	Integrated Circ	n i i e	Connector	
Q2203	B-6	integrated Circ	uit	P3701	C-1
Q2204	B-5	IC1001	B-3		
Q2204 Q2205	D-3	IC1003	E-2	P4001	C-1
		IC1004	A-2	P6201	B-7
Q2206	C-5	IC1005	F-2	P6401	B-8
Q2207	C-5	IC1006	C-3	P6701	E-5
Q2208	E-5	IC1007	C-2	P6703	E-3
Q3601	C-5	IC1008	F-5	P6707	B-1
Q4001	D-6	IC1009	C-1	P7901	A-8
Q4002	D-6	IC2201	A-6	P7902	C-1
Q4003	C-7	IC2202	C-6	PK7301	C-8
Q4004	D-7	IC2203	B-5	PK7302	B-8
Q4005	D-7	IC2204	B-6	PP3401	F-5
Q4701	E-6	IC2205	B-6	PP3402	F-6
Q4702	E-6	IC2206	E-5	PP3403	F-7
Q7601	D-8	IC2207	D-5	PP3404	F-5
Q7604	B-8	IC2208	D-5	PP3501	F-5
Q7605	B-8	IC2209	B-4	PP3502	F-3
Q7606	B-8	IC2210	B-5	PP3503	F-2
Transistor & Re	eletor	IC2211	E-4	PP3610	E-4
		IC2212	E-4	PP4002	C-7
QR1001	B-2	IC2213	E-5	PP4003	D-7
QR1003	C-2	IC2214	E-4	PP6706	E-1
QR1005	A-3	IC2215	E-4	TU7601	E-8
QR1008	C-2	IC2216	E-4		
QR1009	F-5	IC3601	F-6		· · · · · ·
QR1011	B-2	IC3602	F-2		
QR1012	A-2	IC3603	C-4		
QR2201	A-4	IC4001	F-7		]
QR2202	A-4	IC4001	F-7		
QR2203	B-6	IC4002	F-7		
QR2204	C-5	IC4004	E-8		į į
QR2205	B-5	IC4701	E-6		
QR2206	B-6				
QR2207	D-5	IC4702	D-6		
QR2207 QR2208		IC7651	F-8		
QR2208 QR2209	D-5	IC7905	C-8		
QN2209	D-5	IC7906	B-8		



### 3-36. FRONT (R) C.B.A. (VEP04696B)



3-37. HEAD AMP C.B.A. (VEP05351A)

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

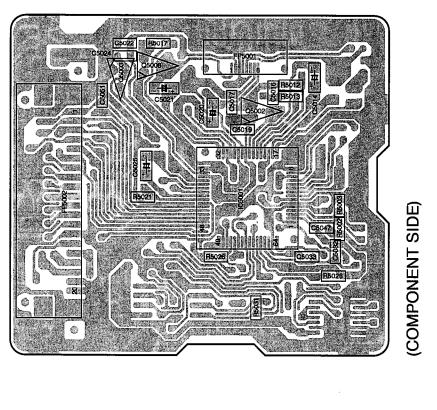
SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

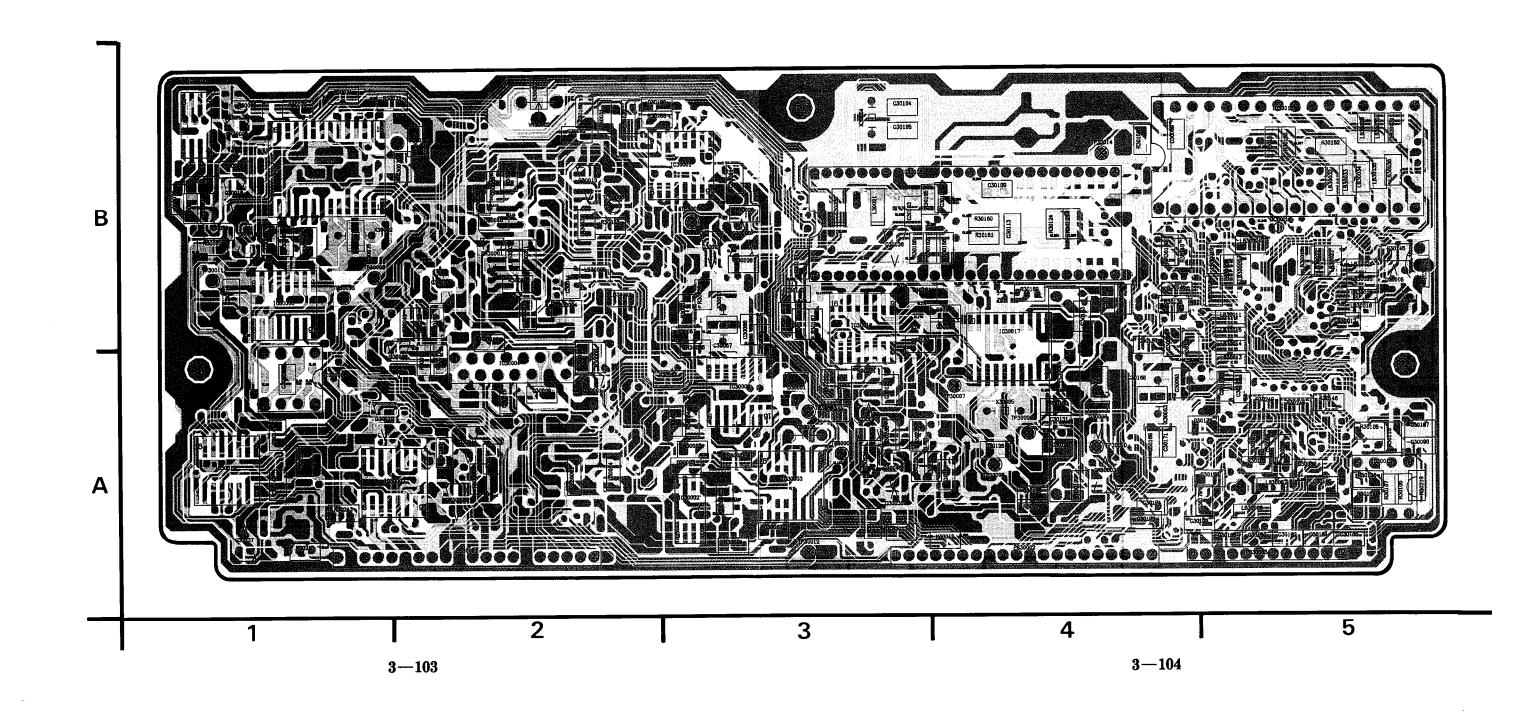
SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

SIDE THAT MAKE EAS

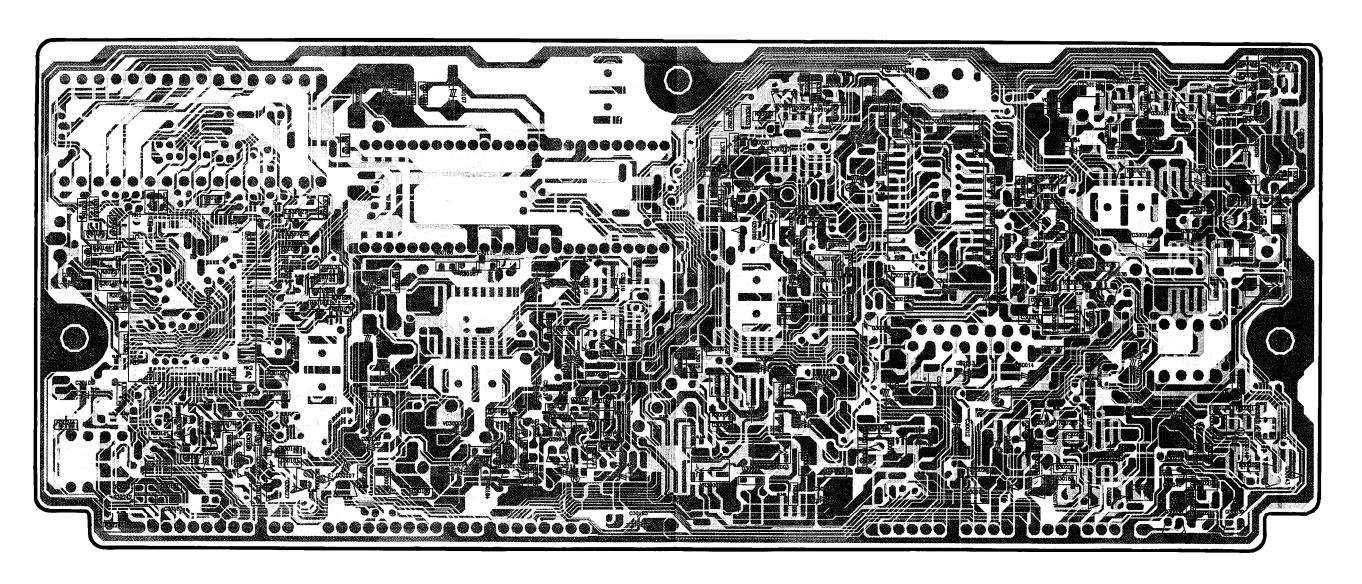
(FOIL SIDE)



3—101



				ANALOG Y	C C.B.A.				
Transistor		Q30025	A-6	Transistor & F	Resistor	IC30018	B-3	VR30003	A-8
Q30001 Q30002 Q30003	A-2 A-2 B-9	Q30026 Q30027 Q30028	A-6 A-7 B-3	QR30001 QR30003 QR30004	B-2 A-4 A-7	IC30019 Test Point	A-1	VR30004 Connector	B-10
Q30003 Q30004 Q30005 Q30006	B-9 B-8 B-8	Q30030 Q30031 Q30032	A-3 A-8 A-8	QR30004 QR30005 QR30006	B-1 A-2	TL30006 TP30001 TP30002	B-2 A-3 B-2	PS30001 PS30002 PS30003	A-2 A-4 A-5
Q30006 Q30007 Q30008	B-3 B-3	.Q30033 Q30034	A-7 A-7	Integrated Circ	,	TP30003 TP30004	B-1 A-3		
Q30009 Q30010 Q30011 Q30012 Q30013 Q30014 Q30015 Q30016 Q30017 Q30018	B-3 B-8 B-2 B-10 B-2 B-9 B-9 A-9 B-1	Q30035 Q30036 Q30037 Q30038 Q30039 Q30040 Q30042 Q30043 Q30044 Q30045	A-7 A-9 A-1 A-10 A-10 A-10 A-9 A-10 A-2 A-8	IC30001 IC30002 IC30003 IC30004 IC30005 IC30006 IC30007 IC30008 IC30009 IC30010	B-3 A-3 A-2 B-1 A-1 A-1 B-9 A-3 B-1	TP30005 TP30007 TP30008 TP30009 TP30010 TP30011 TP30012 TP30013 TP30014  Adjustment	B-3 A-4 A-4 A-4 B-1 A-3 B-1 B-4		
Q30019	A-10	Q30046 Q30047	A-3 A-3	IC30012	A-5	VC30001	B-10	-	
Q30020 Q30021 Q30022	B-10 B-10 B-10	Q30047 Q30048 Q30049	A-8 A-9	IC30013 IC30014 IC30015	B-6 B-5 B-5	VC30002 VC30003	A-7 B-9		
Q30023 Q30024	B-10 B-10			IC30016 IC30017	B-3 B-4	VR30001 VR30002	A-8 B-2		



6 7 8 9 10

3—105

3—106

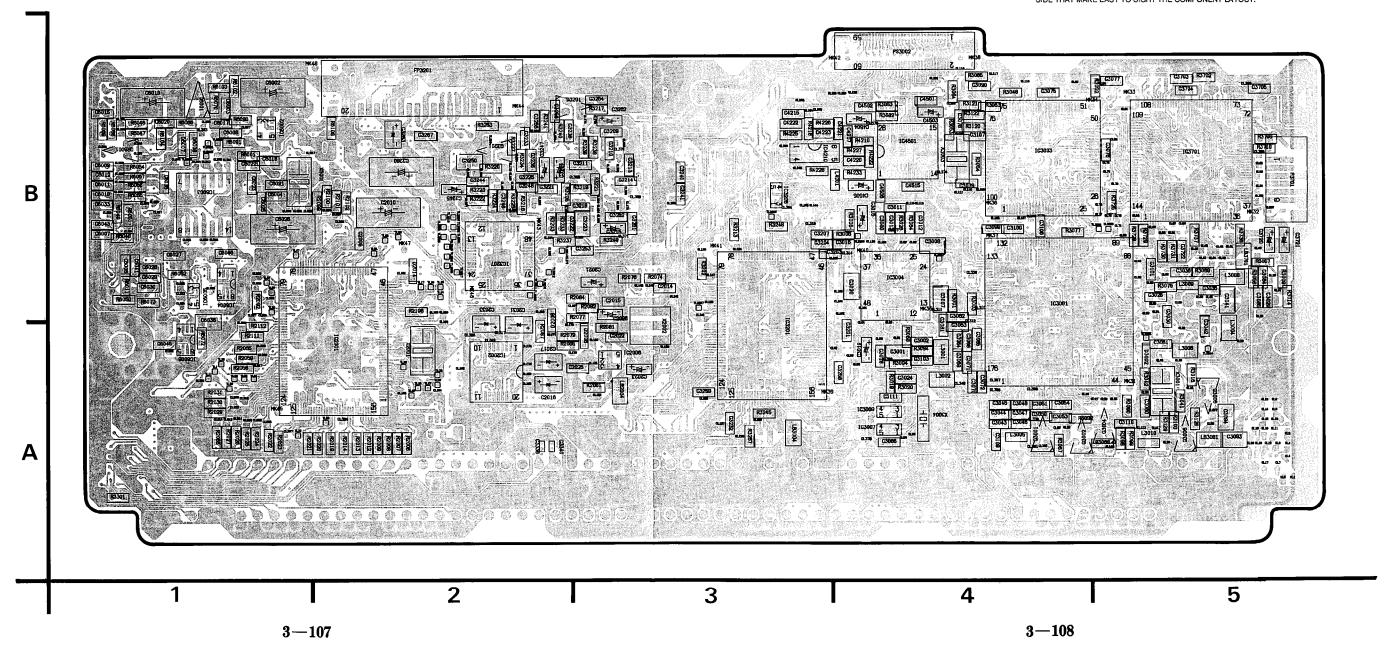
#### 3-39. DIGITAL C.B.A. (VEP03E55A)

																A'	/ DIGITA	L C.B.A. (1	)				_												
Transisto	or	IC3002	B-7	Diode		Test Poi	int	TL32	A-2	TL3208	B-3	TL6014	B-10	X3001	A-5	L4501	B-7	C2011	A-10	C3003	A-7	C3030	B-5	C3056	A-6	C3082	B-6	C3109	A-4	C3217	B-8	C3242	B-8	C3282	B-9
02001	Λ 4	IC3003	B-4	D2001	Λ0	T1.4	Ι Δ 1	TL33	A-1	TL3209	B-2	TL6015	B-10	X3003	B-4	L4502	B-7	C2012	A-10	C3004	A-7	C3031	A-7	C3057	A-6	C3083	B-6	C3110	A-5	C3218	B-3	C3243	B-8	C3283	B-2
Q3001	A-4	IC3004	B-4	D2001	A-9	TL4	A-1	TL34	A-1	TL3210	B-2	TL6016	B-10	X3004	A-4	LB2002	A-9	C2013	A-10	C3005	B-7	C3032	A-7	C3058	A-6	C3084	B-5	C3111	A-4	C3219	B-8	C3244	B-2	C3301	A-10
Q3002	A-4	IC3005	B-6	D2003	B-9	TL5	A-9	TL35	A-1	TL3211	B-2	TL6017	B-10	X6001	A-1	LB2003	A-10	C2014	B-3	C3006	A-7	C3033	B-7	C3059	B-7	C3085	B-5	C3112	B-7	C3220	B-8	C3245	B-2	C3302	A-10
Q3003	A-7	IC3006	A-7	D2004 D2005	B-9 B-9	TL9	A-9 B-9	TL36	A-1	TL3212	B-2	TL6018	B-10	Coil		LB2004	A-3	C2015	B-3	C3007	B-4	C3034	A-7	C3060	A-5	C3086	A-4	C3113	B-7	C3221	B-2	C3246	B-2	C3303	A-10
Q3004	A-5	IC3007	A-4	D2005	A-3	TLI	A-1	TL37	B-1	TL3214	B-2	TL6020	B-10	COII		LB3001	A-5	C2016	A-2	C3008	B-4	C3035	B-5	C3061	A-5	C3087	A-6	C3114	B-7	C3222	B-3	C3247	B-2	C3304	A-10
Q3005	A-5	IC3008	B-7	D2006 D2007	B-9	TL11	A-1	TL47	B-1	TL3216	B-2	TL6021	B-10	L2001	A-9	LB3002	A-6	C2017	A-2	C3010	B-7	C3036	B-5	C3062	B-4	C3090	B-4	C3115	B-7	C3223	B-3	C3248	B-2	C3305	A-10
Q3006	A-5	IC3009	A-4	D2007	A-2	TL12	A-1	TL59	B-8	TL3217	B-2	TL6024	B-10	L2002	B-9	LB3004	A-3	C2018	A-9	C3011	B-4	C3037	B-6	C3063	A-4	C3091	A-7	C3116	A-7	C3224	B-2	C3249	B-9	C3306	A-10
Q3007	A-7	IC3010	A-7	D2008	A-10	TL12	A-2	TL60	B-8	TL3218	B-2	TL6025	B-10	L3001	A-4	LB3006	A-7	C2019	A-9	C3012	B-4	C3038	B-6	C3064	A-4	C3092	A-7	C3117	A-7	C3225	B-2	C3250	B-2	C3307	A-10
Q3008	A-7	IC3201	A-3	D2009	A-10	TI 14	A-2	TL3002	B-6	TL3219	B-2	TL6026	B-1	L3002	A-4	LB3701	B-5	C2020	A-9	C3013	B-4	C3039	B-6	C3065	A-4	C3093	A-5	C3201	A-4	C3226	B-9	C3251	B-3	C3308	A-10
Q3201	B-2	1C3202	A-8	D2010	B-10	TI 15	B-2	TL3004	A-5	TL3220	B-2	TL6029	B-10	L3003	A-7	LB3702	B-6	C2021	B-3	C3014	B-7	C3040	B-6	C3067	A-6	C3094	A-5	C3202	B-7	C3227	B-9	C3252	B-3	C3309	A-10
Q6001	B-1	1C3203	B-9	D2011	B-10	TL 16	B-2	TL3006	A-6	TL3221	B-2	TL6030	B-10	L3004	A-5	LB3703	B-6	C2022	A-3	C3015	B-4	C3041	B-5	C3068	A-4	C3095	A-6	C3203	B-4	C3228	B-9	C3253	B-3	C3310	A-10
Transistor 8	Resistor	IC3204	B-8	D2012	A-10	T1 17	B-2	TL3014	A-5	TL3222	B-2	TL6031	B-10	L3005	A-4	LB3704	B-6	C2023	A-3	C3016	B-4	C3042	A-5	C3069	A-4	C3096	A-6	C3204	B-3	C3229	B-9	C3254	B-3	C3311	A-10
000004	1.10	IC3205	B-3	D2013	B-2	TL18	A-2	TL3020	B-5	TL3223	B-2	TL6032	B-1	L3006	A-5	LB6004	A-9	C2024	B-9	C3017	B-7	C3043	A-4	C3070	A-4	C3097	B-6	C3205	B-7	C3230	B-9	C3255	B-2	C3312	A-9
QR2001	A-10	IC3207	B-2	D3002	A-5	TI 10	A-2	TL3024	B-5	TL3224	B-2	TL6033	B-10	L3007	A-7		<u>.</u>	C2025	A-3	C3018	A-4	C3044	A-4	C3071	A-4	C3098	B-7	C3206	B-8	C3231	B-9	C3256	B-2	C3313	A-9
QR2002	A-9	IC3701	B-5	D3002	B-7	TL20	B-9	TL3026	B-4	TL6001	B-10	-	Ļ	L3008	B-5	Capacito	r	C2026	B-3	C3019	A-4	C3045	A-4	C3072	A-4	C3099	B-4	C3207	B-3	C3232	A-3	C3257	B-8	C3314	A-9
QR2003	A-9	IC4201	B-7	D3201	B-3	TL21	B-2	TL3027	B-4	TL6002	B-10	Connect	or	L3009	B-5	C2002	A-9	C2027	B-10	C3020	B-4	C3046	A-4	C3073	B-7	C3100	B-4	C3208	B-8	C3233	B-2	C3258	A-4	C3315	A-9
QR6001	B-1	IC4210	B-3	D4501	B-7	TL22	B-2	TL3028	A-7	TL6005	B-9	FP3201	B-2	L3010	A-5	C2003	A-9	C2028	B-9	C3021	A-7	C3047	A-4	C3074	B-7	C3101	B-5	C3209	B-3	C3234	B-9	C3259	A-3	C3316	A-9
Integrated	Circuit	IC4501	B-4	D6002	B-10	TL23	B-2	TL3201	B-9	TL6006	B-9	P3701	B-5	L3201	B-7	C2004	B-9	C2029	A-9	C3023	A-7	C3048	A-4	C3075	B-4	C3102	A-6	C3210	B-3	C3235	B-9	C3260	B-8	C3317	A-9
IC2001	A-2	IC6001	B-10	D6003	B-10	TL26	B-9	TL3202	B-8	TL6007	B-9	PS3001	A-8	L3202	B-9	C2005	A-9	C2030	A-9	C3024	A-4	C3049	A-6	C3076	B-5	C3103	A-4	C3211	B-3	C3236	B-2	C3261	B-9	C3318	A-9
IC2001		IC6002	B-1	D6004	B-10	TL27	A-2	TL3203	B-9	TL6008	B-9	PS3002	B-4	L3204	B-7	C2006	A-9	C2031	B-2	C3025	A-7	C3050	A-4	C3077	B-5	C3104	A-7	C3212	B-8	C3237	B-9	C3262	B-3	C3319	A-9
	A-2	1C6002	B-1	D6005	B-10	TL28	A-2	TL3204	B-9	TL6009	B-1		J	L3205	B-7	Ç2007	B-9	C2032	A-9	C3026	B-5	C3051	A-4	C3078	B-4	C3105	B-7	C3213	B-3	C3238	B-3	C3263	B-8	C3320	A-9
IC2004	A-10	IC6004	B-1	D6003	B-10	TL29	B-1	TL3205	B-9	TL6010	B-1	Crystal C	Scillator	L3208	B-8	C2008	B-9	C2033	B-2	C3027	A-6	C3052	A-6	C3079	B-4	C3106	B-4	C3214	B-3	C3239	B-8	C3267	B-2	C3321	A-9
IC2005 IC2006	A-8 A-3	IC6004	B-1	D6008	B-1	TL30	A-2	TL3206	B-2	TL6012	B-10	X2001	A-2	L3210	B-9	C2009	B-2	C3001	A-4	C3028	A-6	C3053	A-4	C3080	B-4	C3107	B-4	C3215	B-3	C3240	B-3	C3280	B-2	C3322	A-9
IC3001	R-4	IC6006	A-1	20000	"	TL31	B-1	TL3207	B-3	TL6013	B-10	X2002	A-3	L4201	B-4	C2010	B-2	C3002	A-4	C3029	B-5	C3054	A-4	C3081	A-4	C3108	A-6	C3216	B-8	C3241	B-3	C3281	B-9	C3323	A-9

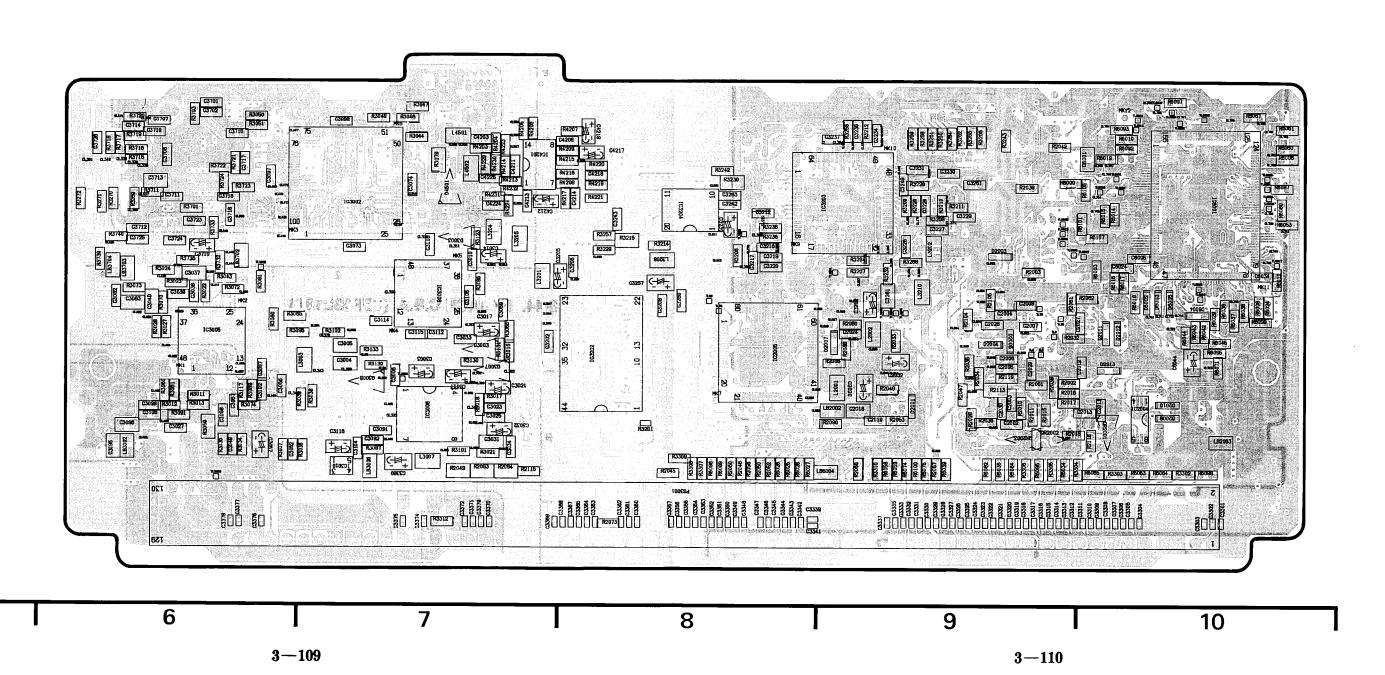
ADDRESS INFORMATION

NOTE: MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTER!
FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH
SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

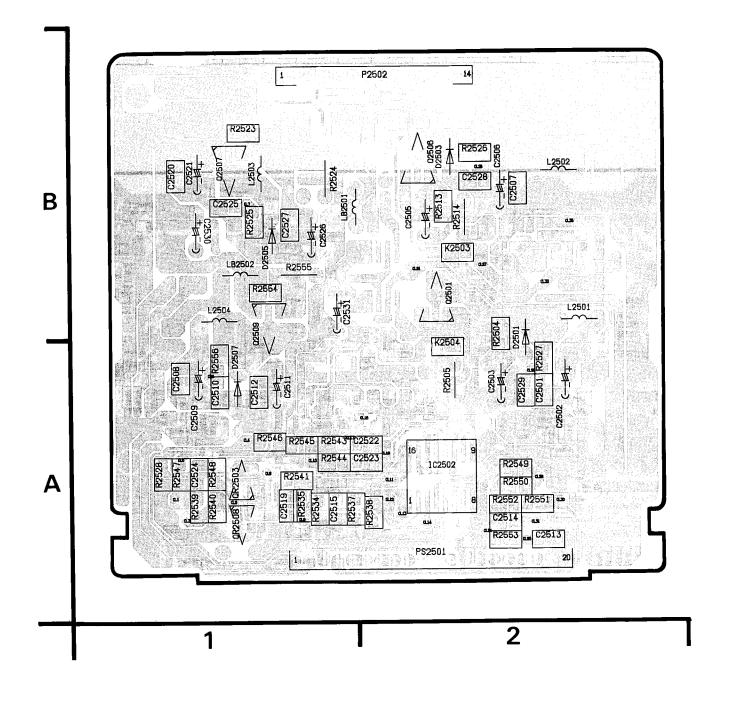


																A	V DIGITA	L C.B.A. (2	)																
C3324	A-9	C3351	A-8	C3380	A-7	C4203	B-7	C6002	B-1	C6030	B-1	R2016	A-9	R2045	A-8	R2082	B-3	R3006	B-4	R3041	A-5	R3070	B-6	R3101	A-7	R3213	B-3	R3240	B-2	R3302	A-10	R3724	B-6	R4217	B-8
C3325	A-9	C3352	A-8	C3701	B-6	C4206	B-8	C6003	B-1	C6033	B-1	R2017	A-9	R2047	A-9	R2084	B-3	R3009	B-5	R3042	A-5	R3072	B-6	R3102	B-7	R3214	B-8	R3241	B-2	R3303	A-10	R3725	B-5	R4218	B-3
C3326	A-9	C3353	A-8	C3702	B-6	C4207	B-4	C6004	B-1	C6034	B-10	R2018	A-9	R2048	A-8	R2085	A-2	R3010	A-7	R3043	B-6	R3073	B-6	R3117	A-6	R3215	B-8	R3242	B-8	R3304	A-9	R3728	B-5	R4219	B-8
C3327	A-9	C3354	A-8	C3703	B-5	C4211	B-7	C6005	B-10	C6035	B-1	R2019	A-2	R2049	A-7	R2086	A-9	R3011	A-6	R3044	B-7	R3074	A-6	R3120	B-4	R3217	B-3	R3243	B-9	R3305	A-9	R3729	B-5	R4220	B-8
C3328	A-9	C3355	A-8	C3704	B-5	C4212	B-7	C6006	B-1	C6036	B-1	R2020	A-2	R2050	A-8	R2087	A-2	R3012	A-6	R3046	B-7	R3075	B-5	R3121	B-4	R3218	B-2	R3245	A-3	R3306	A-9	R3730	B-5	R4221	B-8
C3329	A-9	C3356	A-8	C3705	B-5	C4213	B-7	C6007	B-1	C6041	B-1	R2021	A-1	R2052	A-8	R2088	A-9	R3013	A-6	R3047	B-7	R3077	B-4	R3122	B-4	R3219	B-3	R3248	B-3	R3307	A-8	R3731	B-5	R4222	B-4
C3330	A-9	C3357	A-8	C3706	B-6	C4214	B-8	C6008	B-1	C6043	B-1	R2022	A-1	R2055	A-1	R2090	A-9	R3014	B-5	R3048	B-4	R3079	B-7	R3123	B-7	R3220	B-2	R3249	B-3	R3308	A-8	R3732	B-6	R4223	B-7
C3331	A-9	C3360	A-8	C3707	B-6	C4215	B-3	C6009	B-1	C6044	A-10	R2023	A-1	R2056	A-8	R2092	B-1	R3016	A-5	R3049	B-7	R3080	B-6	R3128	A-5	R3221	B-3	R3256	B-9	R3309	A-8	R3733	B-6	R4224	B-7
C3332	A-9	C3361	A-8	C3710	B-6	C4217	B-8	C6010	B-1	C6045	A-1	R2024	A-1	R2057	A-9	R2099	B-2	R3017	A-7	R3050	B-6	R3081	B-6	R3129	A-5	R3222	B-2	R3257	B-8	R3310	A-9	R3735	B-6	R4225	B-3
C3333	A-9	C3362	A-8	C3711	B-6	C4218	B-8	C6011	B-1	C6046	B-1	R2025	A-1	R2058	A-1	R2100	B-2	R3018	A-7	R3051	B-6	R3082	B-4	R3130	A-7	R3223	B-2	R3258	B-9	R3312	A-7	R3736	B-5	R4226	B-3
C3335	A-9	C3363	A-8	C3712	B-6	C4219	B-8	C6012	B-1	Resistor		R2026	A-1	R2059	A-1	R2101	B-2	R3019	A-4	R3052	B-5	R3083	B-4	R3131	A-7	R3224	B-2	R3259	B-9	R3701	B-6	R3737	B-5	R4227	B-4
C3337	A-9	C3364	A-8	C3713	B-6	C4220	B-4	C6015	B-1	nesistoi	r	R2027	A-1	R2060	A-8	R2102	B-2	R3020	A-4	R3053	B-4	R3084	B-4	R3132	A-7	R3225	B-2	R3260	B-9	R3702	B-5	R3739	B-6	R4228	B-3
C3338	A-2	C3365	A-8	C3714	B-6	C4221	B-4	C6017	B-1	R2001	A-9	R2028	A-9	R2061	B-9	R2104	B-9	R3021	A-7	R3054	B-4	R3085	B-4	R3133	A-7	R3226	B-9	R3261	B-9	R3703	B-6	R3740	B-6	R4229	B-7
C3339	A-8	C3367	A-8	C3715	B-6	C4222	B-3	C6018	B-1	R2002	A-9	R2029	A-1	R2062	B-10	R2105	B-9	R3022	B-6	R3057	B-5	R3086	B-7	R3201	B-8	R3227	B-2	R3262	B-9	R3709	B-5	R4203	B-7	R4230	B-7
C3340	A-2	C3368	A-8	C3716	B-6	C4223	B-3	C6019	B-1	R2003	B-9	R2030	A-1	R2063	A-7	R2106	B-2	R3023	B-6	R3058	B-5	R3088	A-4	R3202	B-3	R3228	B-9	R3263	B-2	R3710	B-5	R4204	B-7	R4231	B-7
C3341	A-8	C3369	A-7	C3717	B-6	C4224	B-7	C6020	B-1	R2006	A-2	R2031	A-1	R2064	A-7	R2111	A-1	R3024	B-6	R3059	A-6	R3089	A-6	R3203	B-2	R3229	B-8	R3264	B-9	R3711	B-6	R4205	B-7	R4232	B-7
C3342	A-8	C3370	A-7	C3718	B-6	C4225	B-7	C6021	B-1	R2007	A-2	R2032	B-9	R2065	A-1	R2112	A-1	R3026	B-4	R3060	A-6	R3090	A-5	R3204	B-9	R3230	B-8	R3265	B-9	R3715	B-6	R4206	B-7	R4233	B-4
C3343	A-8	C3371	A-7	C3719	B-6	C4501	B-4	C6022	B-1	R2008	A-2	R2033	B-9	R2068	A-9	R2113	A-9	R3027	B-6	R3061	A-6	R3091	A-6	R3205	B-2	R3232	B-9	R3266	B-9	R3716	B-6	R4207	B-8	R6001	B-1
C3344	A-8	C3372	A-7	C3720	B-5	C4502	B-4	C6023	B-1	R2009	A-2	R2034	A-9	R2073	A-8	R2115	A-7	R3028	B-6	R3063	B-4	R3092	A-4	R3206	B-8	R3233	B-2	R3267	A-3	R3717	B-6	R4208	B-8	R6003	B-10
C3345	A-8	C3374	A-7	C3721	B-5	C4503	B-4	C6024	B-10	R2010	A-9	R2035	A-9	R2074	B-3	R2118	A-10	R3034	A-6	R3064	B-4	R3094	A-4	R3207	B-9	R3234	B-2	R3268	B-9	R3718	B-6	R4209	B-8	R6006	B-10
C3346	A-8	C3375	A-7	C3722	B-5	C4504	B-4	C6025	B-1	R2011	A-9	R2036	A-9	R2076	B-3	R2119	A-9	R3035	A-6	R3065	B-6	R3095	B-6	R3208	B-9	R3235	B-8	R3269	B-6	R3719	B-6	R4210	B-4	R6008	B-10
C3347	A-8	C3376	A-6	C3723	B-6	C4505	B-4	C6026	B-1	R2012	A-2	R2038	A-9	R2077	B-3	R3001	B-4	R3036	A-7	R3066	B-7	R3097	A-7	R3209	B-9	R3236	B-8	R3270	B-6	R3720	B-6	R4213	B-7	R6009	B-9
C3348	A-8	C3377	A-6	C3724	B-6	C4506	B-4	C6027	B-1	R2013	A-2	R2039	B-9	R2079	A-2	R3003	B-4	R3037	A-6	R3067	A-4	R3098	A-5	R3210	B-9	R3237	B-2	R3271	B-6	R3721	B-6	R4214	B-7	R6010	B-10
C3349	A-8	C3378	A-7	C3725	B-6	C4515	B-4	C6028	B-1	R2014	A-2	R2040	A-9	R2080	B-9	R3004	A-4	R3038	A-7	R3068	A-5	R3099	A-5	R3211	B-9	R3238	B-3	R3272	B-6	R3722	B-6	R4215	B-8	R6011	B-1
C3350	A-8	C3379	A-7	C3726	B-6	C6001	B-10	C6029	B-1	R2015	A-9	R2042	B-9	R2081	A-3	R3005	B-4	R3039	A-7	R3069	A-5	R3100	A-5	R3212	B-9	R3239	B-3	R3301	A-1	R3723	B-6	R4216	B-8	R6012	B-10



							4	V DIGITAL	. C.B.A. (	3)							
R6014	B-10	R6027	A-8	R6042	B-10	R6051	B-1	R6060	B-10	R6070	B-1	R6085	A-9	R6097	B-10	R6107	B-10
R6015	B-10	R6028	A-8	R6043	B-10	R6052	B-1	R6061	B-10	R6071	A-10	R6087	B-10	R6098	A-10	R6108	B-2
R6016	B-10	R6029	B-10	R6044	B-10	R6053	B-10	R6063	A-10	R6072	A-1	R6089	A-8	R6099	B-10		ļ
R6017	B-10	R6034	A-9	R6045	B-10	R6054	B-1	R6064	A-10	R6073	B-1	R6090	B-1	R6100	A-9		
R6018	B-10	R6035	A-9	R6046	B-1	R6055	B-1	R6065	A-10	R6074	A-9	R6091	B-1	R6101	B-10		
R6019	B-10	R6036	B-10	R6047	B-1	R6056	B-1	R6066	B-1	R6075	A-9	R6092	B-10	R6102	B-1		
R6024	B-10	R6037	B-10	R6048	B-1	R6057	B-1	R6067	B-10	R6080	B-10	R6093	B-10	R6103	B-1		1
R6025	A-8	R6038	B-10	R6049	B-1	R6058	A-9	R6068	B-1	R6082	A-9	R6095	A-10	R6104	B-1		
R6026	A-8	R6039	A-9	R6050	B-1	R6059	A-9	R6069	B-1	R6084	A-9	R6096	A-8	R6105	B-10		

#### 3-40. MOTOR DRIVE C.B.A. (VEP06C89A)

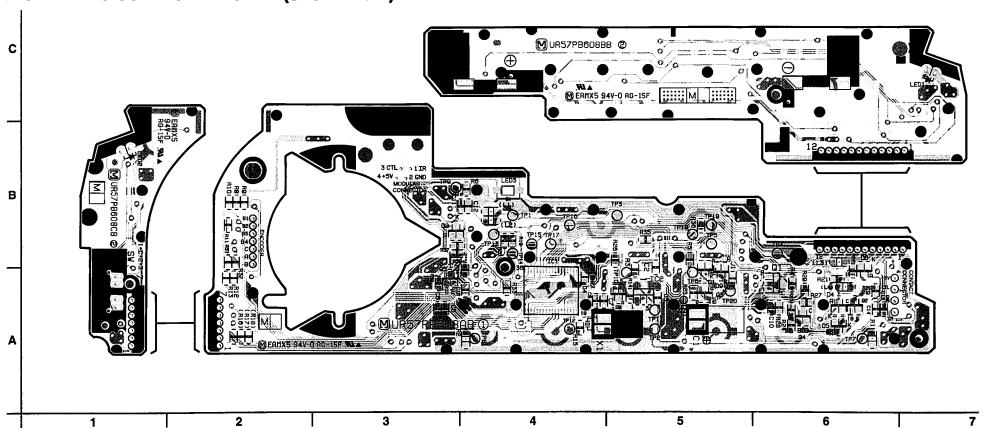


3—111

# 3-41. MODULAR C.B.A. (VEP07966A) 3-42. IR C.B.A. (VEP07968B) В LB7701 JA5 1 P7601 4 P7701 3-43. FRONT LED C.B.A. (VEP07965A) 07753 ------07751 <del>-</del>⊖ 3-44. 5P JACK C.B.A. (VEP03E18A)

3-112

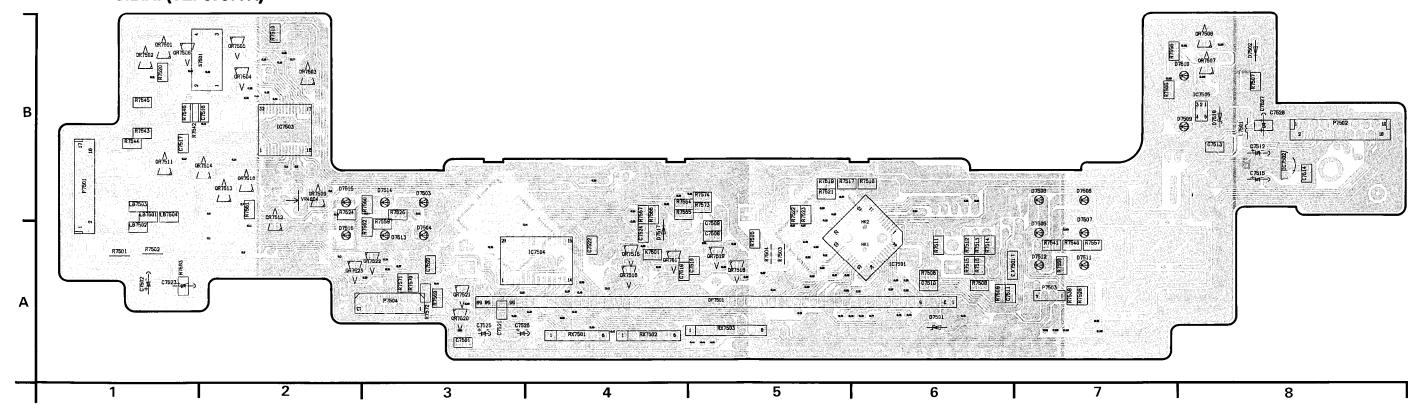
#### 3-45. EDITING CONTROLLER C.B.A. (UR57VPB623)

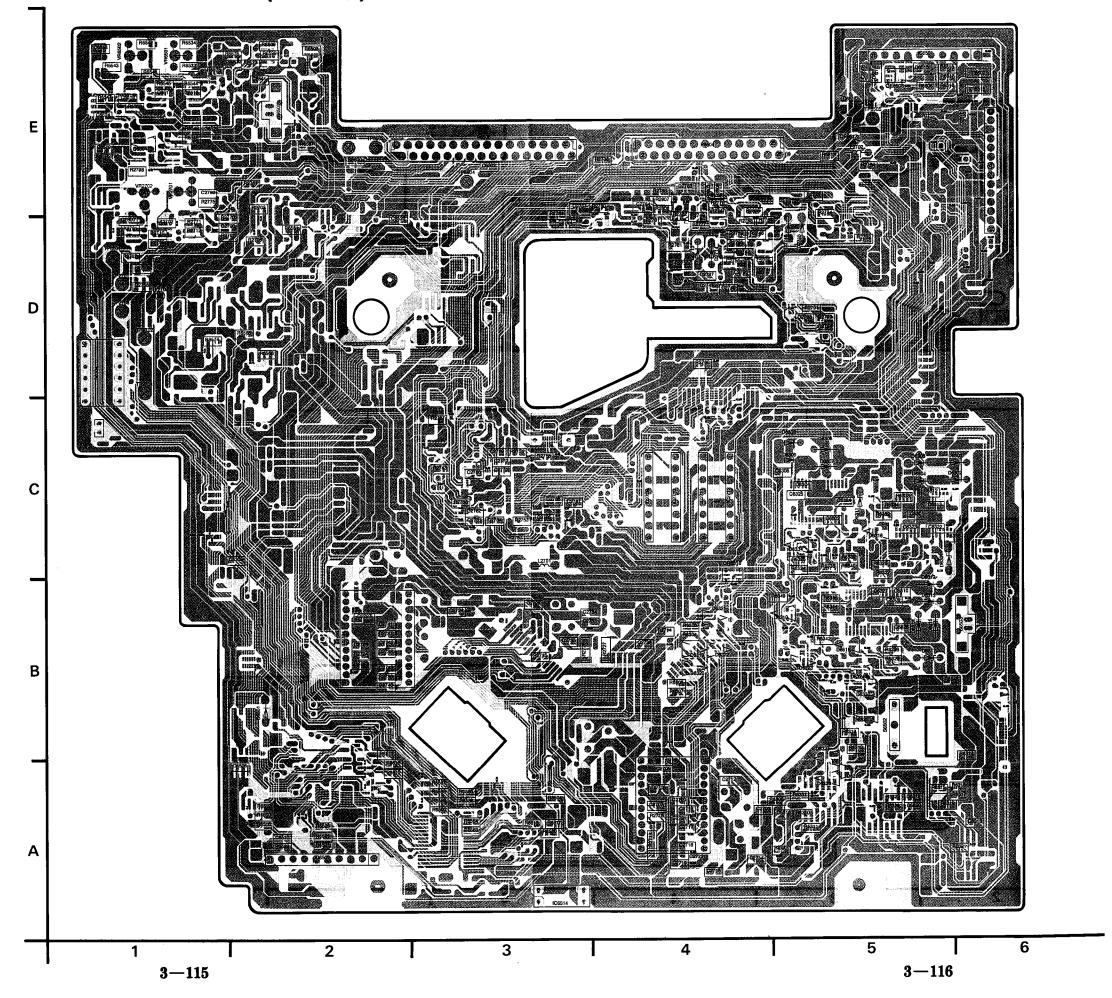


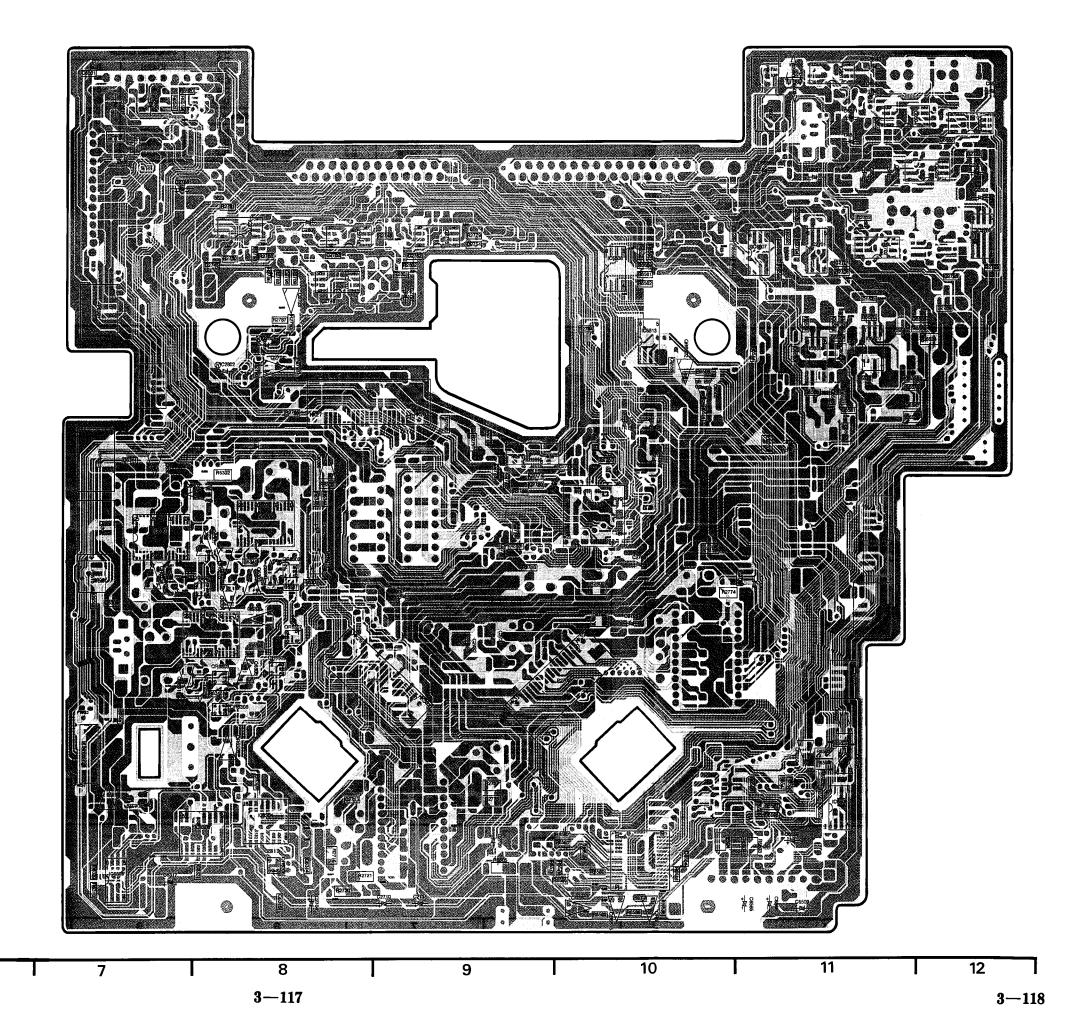
	TIME	R C.B.A.	
Transistor & F	Resistor	Integrated Cir	rcult
QR7501	B-1	IC7501	A-6
QR7502	B-1	IC7502	B-8
QR7503	B-2	IC7503	B-2
QR7504	B-2	IC7504	A-4
QR7505	B-2	IC7505	B-8
QR7506	B-1	Adjustment	
QR7507	B-8	Aujustillerit	
QR7508	B-8	VR4004	B-2
QR7509	B-2	Connector	
QR7510	B-2	Connector	
QR7511	B-1	P7501	B-1
QR7512	B-2	P7502	B-8
QR7513	B-2	P7503	A-7
QR7514	B-2	P7504	A-3
QR7515	A-4		1
QR7516	A-4		1
QR7517	A-4		
QR7518	A-5		
QR7519	A-5		1
QR7520	A-3		
QR7521	A-3		1
QR7522	A-3		
QR7523	A-2		1

ADDRESS INFORMATION

#### 3-46. TIMER C.B.A. (VEP07977A)

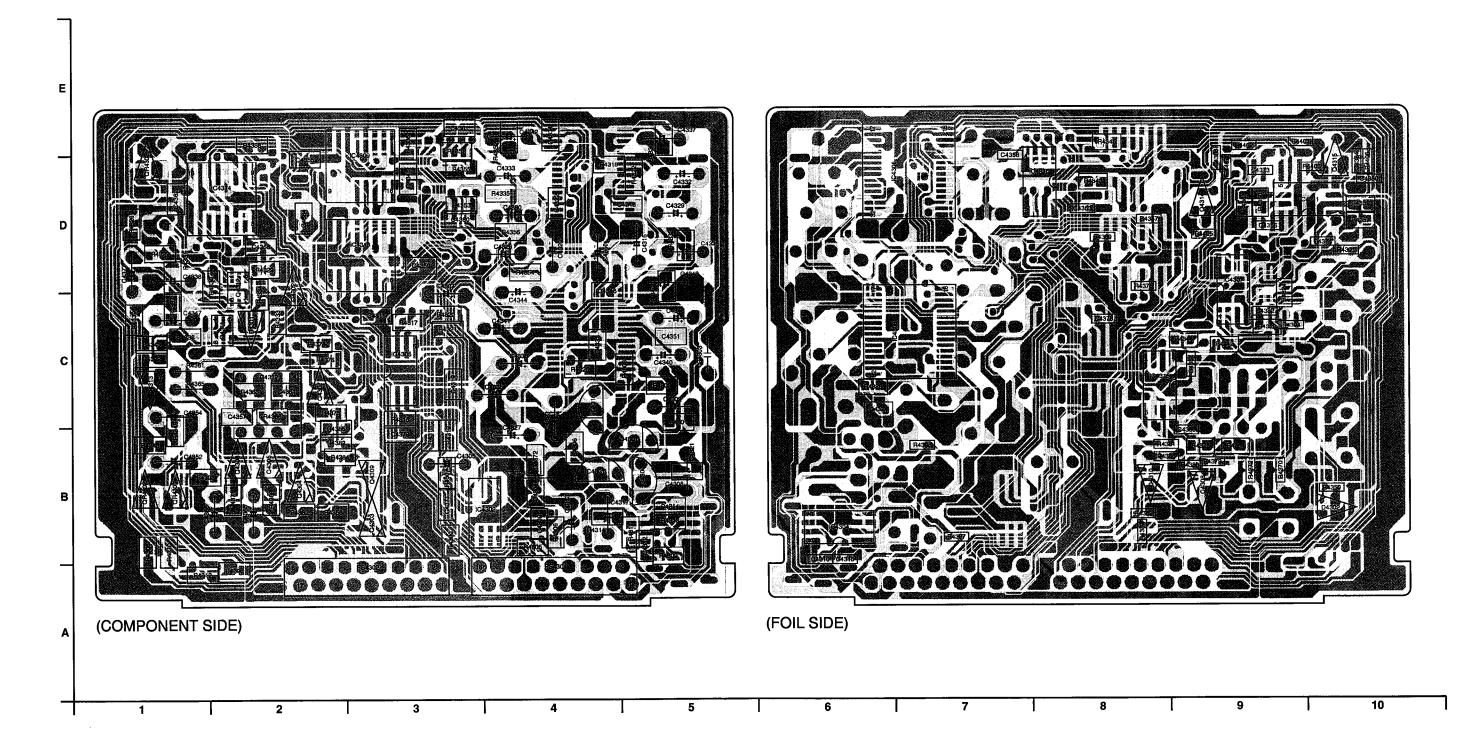






MEC	HANISM	DRIVE C.E	.A.
Transist	or	IC2715	D-9
Q2701	E-5	IC6301	C-7
Q2703	D-8	IC6302	C-8
Q2704	D-8	IC6303	B-8
Q6301	C-8	IC6304	A-8
Q6302	C-8	IC6305	A-7
Q6303	C-8	IC6306	A-8
Q6304	B-8	IC6501	E-5
Q6305	B-8	IC6502 IC6503	A-2 E-12
Q6306	B-8	IC6503	E-12
Q6307	C-7	IC6504	E-12
Q6308	C-8	IC6506	A-11
Q6502	D-10	IC6507	D-11
Q6503	B-11	IC6508	D-10
Q6504	E-1	IC6509	D-11
Q6505	B-11	IC6510	D-11
Transistor	& Resistor	IC6511	E-10
QR2701	E-8	IC6512	A-10
QR6301	C-8	IC6513	D-10
QR6302	C-8	IC6514	A-3
QR6303	B-8	Test Poi	nt
QR6304 QR6305	A-7 B-8	TL2701	D-1
QR6306	A-8	TL2702	D-1
QR6307	B-8	TP2701	D-1
QR6308	B-8	TP2702	D-1
QR6309	B-8	TP2703	D-1
QR6314	C-7	TP2704	D-1
QR6315	C-8	TP6501	D-1 E-2
QR6316	B-7	TP6502 TP6503	E-2 E-2
QR6317	C-8	TP6404	E-3
QR6318	C-4	TP6505	E-5
QR6501 QR6502	E-8 D-10		
QR6503	A-10	Adjustm	ent
QR6504	B-11	VR2701	E-1
QR6505	B-10	VR2702	E-1
QR6506	A-10	VR6501	E-1
QR6507	A-10	VR6502	E-1
QR6508 QR6511	E-5 B-2	Connect	or
QR6514	A-10	P2701	B-8
QR6515	A-10	P2702	B-10
QR6516	E-8	P2703	C-9
QR6517	E-5	P2704	D-8
Integrated	Circuit	P2705	E-6
		P6301	B-11
IC2701	D-11	P6302 P6303	C-7 C-7
IC2702 IC2703	D-11 A-4	P6501	D-7
IC2704	B-2	P6502	C-1
IC2705	E-12	P6503	E-11
IC2706	E-8	P6504	E-4
IC2707	D-8	P6505	E-3
IC2708	C-10	P6506	E-11
IC2709	C-4	P6507	C-11
IC2710	C-4	P6508	C-11
		P6509	B-7
IC2711	C-4		~ ~
IC2712	C-4	P6510	C-7
			C-7 D-7 B-11

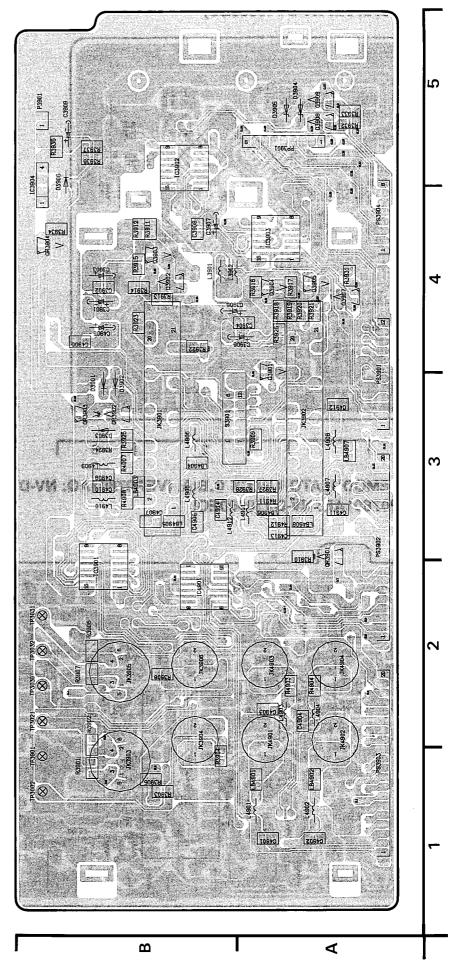
			AUD	IO C.B.A.			
Transistor		Q4310	B-8	Integrated Circ	uit	IC4310	D-8
Q4301 Q4302 Q4303 Q4304	B-5 C-2 B-3 B-2	Q4311 Q4312 Q4313 Q4314 Q4315	C-2 D-2 C-1 D-9 D-10	IC4301 IC4302 IC4303 IC4304	B-4 B-3 B-5 B-6	IC4311 IC4312 IC4313 IC4314 IC4315	D-9 C-2 D-3 D-2 C-8
Q4305 Q4306	B-2 B-2	Transistor & R	esistor	IC4305 IC4306	C-3 D-6	IC4316	C-4
Q4307	C-2	QR4301	B-1	IC4307	D-9	Connector	
Q4308 Q4309	B-9 B-3	QR4302 QR4303	B-1 D-1	IC4308 IC4309	C-6 E-3	PS4301 PS4302	A-4 A-3



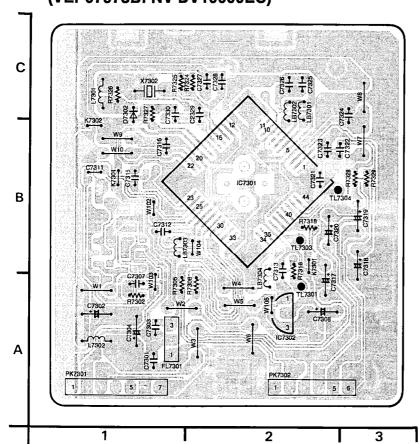
3—120

#### 3-49. INPUT/OUTPUT C.B.A. (VEP03E28A)

Transistor		Transistor & Resistor	esistor	IC3904	B-4	Connector	
Q3901	A-3	QR3901	A-3	IC4901	B-2	P3901	85 85
Q3902	B-4	QR3902	ტ	Toet Doint		PP3901	A-5
Q3903	B 4	QR3903	6.4 B.3	Test Form		PS3901	A-3
Q3904	A-4	QR3904	B-4	TP3002	B-1	PS3902	A-3
Q3905	A-4			TP3021	B-2	PS3903	A-1
Q3907	A-4	Integrated Circuit	ij	TP3030	B-2	PS3904	A-4
Q3908	A-5	IC3901	B-2	TP3031	B-2		
Q3909	A-5	1C3902	Ф	TP3032	B-2		
		103903	A-4	TP3901	<u>₽</u>		



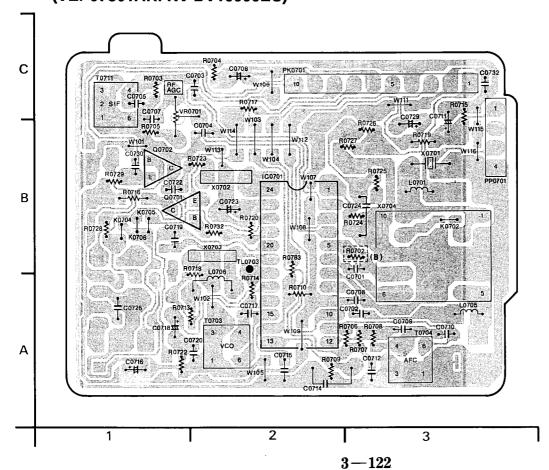
## 3-50. NICAM DECODER PACK C.B.A. (VEP07973A: NV-DV10000B) (VEP07973B: NV-DV10000EC)



NICAM DECOL	ER PACK
Integrated Circ	uit
IC7301	B-2
IC7302	A-2
Test Point	
TL7301	A-2
TL7303	B-2
TL7304	B-2
Connector	
PK7301	A-1
PK7302	A-2

ADDRESS INFORMATION

## 3-51. TV DEMODULATOR PACK C.B.A. (VEP07801AQ: NV-DV10000B) (VEP07801AR: NV-DV10000EC)



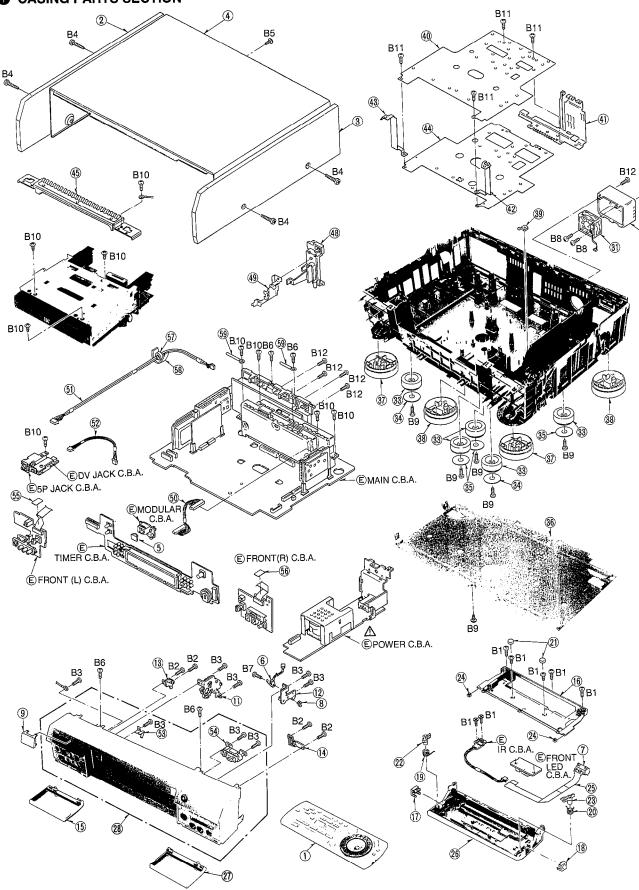
TV DEMODUL C.B.A.	ATOR PACK
Transistor	
Q0701	B-1
Q0702	B-1
Integrated Cir	rcuit
IC0701	B-2
Test Point	
TL0703	B-2
Adjustment	
T0703	A-2
T0704	A-3
T0711	C-1
VR0701	C-1
Connector	
PK0701	C-2
PP0701	C-3

ADDRESS INFORMATION

## SECTION 4 EXPLODED VIEWS & PARTS LIST

#### 4-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST



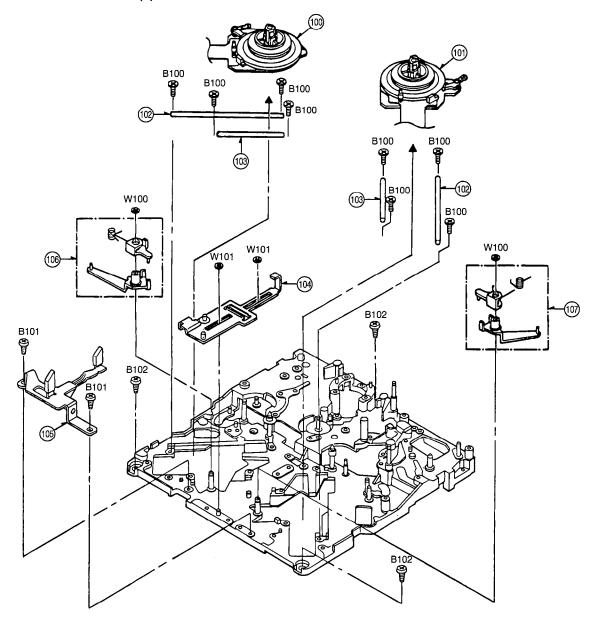


4-1

Note: 1. *Be sure to make your orders of replacement parts according to this list.	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
2. IMPORTANT SAFETY NOTICE					
Components identified with the mark $\triangle$ have the special characteristics for safety. When replacing any of these components, use only the same type.					
any or diese components, use only the same type.		· ·			

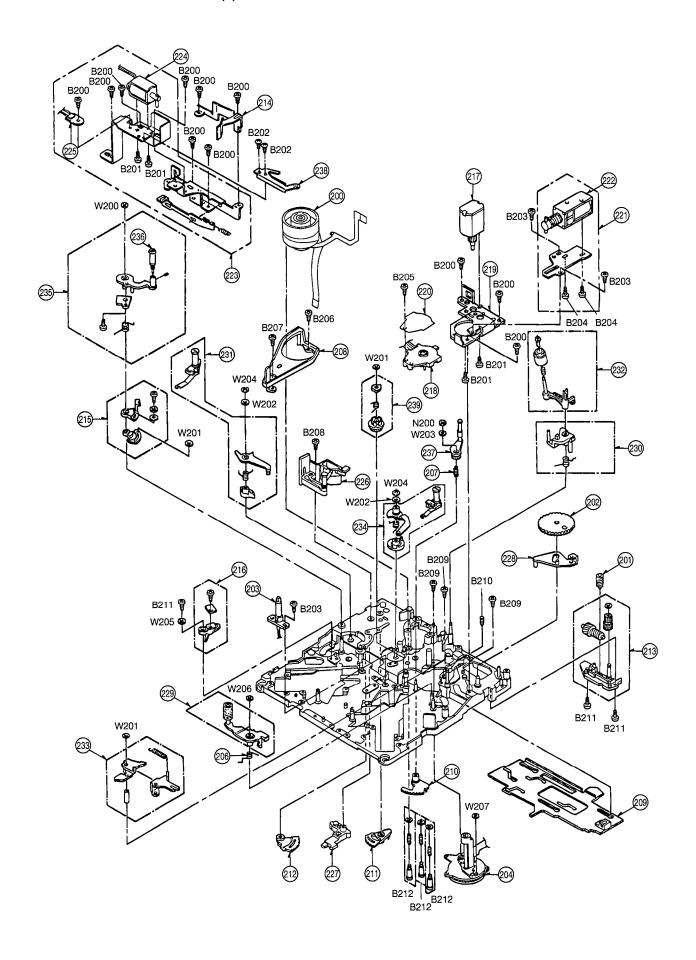
		×		·			
						1-1-1-1-1-1	
Ref. No.	Part No.	Part Name & DescriptionPo	s Remarks				
		EDITING CONTROLLER	1				
		SIDE PANEL (L)	1				
		0.00	1				
	VGM1493		1		***		
	VGQ4455 VSP1082		1		.,	-0	
	VGQ2807		1		<del>-</del>		
	VJF0496		1				
	VKW2399		1				
	VXA6018		1				
	VXA6019		1				
	VXA6045		1				
	VXA6046		1				
15	VYF2579	DOOR (L) ASS'Y	1				
16	VGP4571	DOOR PANEL	1				
17	VGU7567	LOCK BUTTON (L)					
18	VGU7568	LOCK BUTTON (R)	1				
19	VMB3186		1				
	VMB3187		1				
	VMG0837		2		****	***	
	VML3269		1			<u> </u>	
	VML3270		1				
	VMT0212		2				
			1 P7752-P7504				
		D0011 107 1 7100 1	1				
			1 AG-DV2700E			, s <sub>1</sub> ,	
	VYF2570		1 AG-DV2700B				
	VYP7098		1		<b>"</b>		
	VRF0087		1				
	VKF3003 VKA0301		5				
	VMG1031		2				
	VMG1049		3				
	VKU0528		1				
	VKA0310		2				
	VKA0311		2				
	VMC1065		11				
	VMZ2721		1		-		
41	VSC4795	SHIELD PLATE	1	-	1		
42	VSC4756	SHIELD PLATE (B3)	1.				
43	VSC4757	SHIELD PLATE (B4)	1				
44	VSC4691	SHIELD PLATE	1 ]				
45	VXA6179	TOP ANGLE ASS'Y	1				
48	VJH0979	ANTENNA JACK PLATE	1				
49	VMC1213		1				
			1 P2705-P2502				
			1 P3701-P7651				
			1 P3781-P6601				
	VMC1374		1	<u> </u>			
	VXU1478	*	1	-		· · · · · · · · · · · · · · · · · · ·	
		V	1	<u> </u>	-		
	VMZ2869		1				
	VSQ0687		1				
	VMT0442		2				
59	VJR3	WIRE CLAMPER	-		<del>-</del>		
			+		-		
					<u></u>		
B1	XQN26+AG6FZ	SCREW	7				
	XTN26+6GFZ		4				
	XTN26+8GR		8		**	*******	
	XTB3+16GFC		4				
	XTV3+8GFZ		1				
	XTW3+12TR	SCREW	4				
	XSN2+6		1				
	XTV3+20GR		2				
B9	XTV3+8G	SCREW	6				
B10	XTV3+10GR	SCREW	8				
B11	XTV3+6GFZ	SCREW	4				
010	XTV3+8GFZ	SCREW	6				
B12	ATTO-OUT E						

#### ② CHASSIS PARTS SECTION (1)



2. IMPo	ORTANT SAFET	r orders of replacement parts according of NOTICE d with the mark & have the special chaints, use only the same type.			Ref. No.	Part No.	Part Name & Descriptio	rPc	s Remarks
Ref. No.	Part No.	Part Name & DescriptionP	cs	Remarks				_	
100	VEM0638	S-REEL MOTOR (1) ASS'Y	1	<m></m>				+	
101	VEM0639	T-REEL MOTOR (1) ASS'Y	1	<m></m>				†	
102	VMS6462	OUTER SHAFT	2		<u> </u>			1-	
103	VMS5924	REEL INNER RAIL	2	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
104	VXA6005	SLIDE ROD (1) ASS'Y	1					1	
105	VXA6006	REEL RELEASE ANGLE1 ASS'Y	1					Ī	
106	VXL2589	S BASE DRIVE ARM ASS'Y	1						
107	VXL2590	T BASE DRIVE ARM ASS'Y	1			~			
				7.2.41				<del> -</del>	
B100	VHD0995	SCREW	8					+	
B101	XQN2+CF3	SCREW	2						
B102	XSB26+4FX	SCREW	3					<u> </u>	
W100	VMX1079	CUT WASHER	2					-	
W101	VMX1394		2	**				T	

#### **3** CHASSIS PARTS SECTION (2)



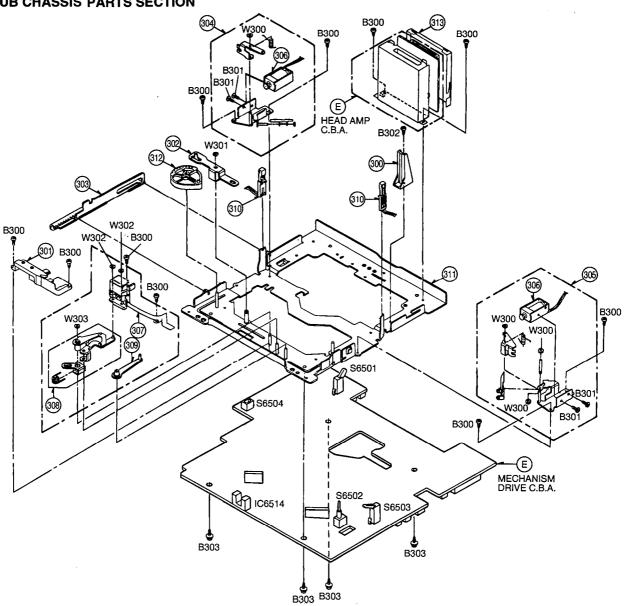
Note: 1. 'Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing

Ref. No. Pa  200 VEG1 201 VDG1 202 VDG1 203 VEKE 204 VEMM 206 VMB2 207 VMB2 208 VMD2 209 VXAS 210 VXAS 211 VXAS	Part No.	ts, use only the same type. Part Name & Description	Por					
200 VEG1 201 VDG1 202 VDG1 203 VEKE 204 VEMC 206 VMB2 207 VMB2 208 VMD2 209 VXAS 210 VXAS 211 VXAS	G1440	Part Name & Description	Por					
200 VEG1 201 VDG1 202 VDG1 203 VEKE 204 VEMC 206 VMB2 207 VMB2 208 VMD2 209 VXAS 210 VXAS 211 VXAS	G1440	Part Name & Description	<u>۔</u>	l I				
200 VEG1 201 VDG1 202 VDG1 203 VEKE 204 VEMC 206 VMB2 207 VMB2 208 VMD2 209 VXAS 210 VXAS 211 VXAS	G1440	div name a populipris.		Remarks				
201 VDG1 202 VDG1 203 VEKE 204 VEMM 206 VMB2 207 VMB2 208 VMD2 209 VXA5 210 VXA5 211 VXA5								
201 VDG1 202 VDG1 203 VEKE 204 VEMM 206 VMB2 207 VMB2 208 VMD2 209 VXA6 210 VXA6 211 VXA6		CYLINDER UNIT	1	<m>&gt;</m>				T
202 VDG1 203 VEKE 204 VEMC 206 VMB2 207 VMB2 208 VMD2 209 VXAS 210 VXAS 211 VXAS		MOTOR WARM GEAR	1					1
203 VEKE 204 VEM 206 VMB2 207 VMB2 208 VMD2 209 VXAS 210 VXAS 211 VXAS		MAIN CAM GEAR	1	<m>&gt;</m>				Ì
204 VEMC 206 VMB2 207 VMB2 208 VMD2 209 VXAS 210 VXAS 211 VXAS		LED HOLDER (1) ASS' Y	1					ı
206 VMB2 207 VMB2 208 VMD2 209 VXA5 210 VXA5 211 VXA5		CAPSTAN (1) ASS' Y	1	<n></n>				t
207 VMB2 208 VMD2 209 VXA5 210 VXA5 211 VXA5		PINCH RELEASE SPRING	1	NII.				l
208 VMD2 209 VXA5 210 VXA5 211 VXA5		T4 THRUST SPRING	<u>'</u>					
209 VXA5 210 VXA5 211 VXA5			1	-				
210 VXA5 211 VXA5		LOADING RAIL	1					
211 VXA5		MAIN ROD ASS'Y	·	··· <del>-</del> ·				-
		T4 SECTOR GEAR ASS'Y			ļ <u></u> -			-
212 IVXA		S SECTOR GEAR ASS'Y	1		ļ			
		T SECTOR GEAR ASS'Y	_1					_
	A5627	THRUST SHAFT HOLDER ASS'Y	1					_
	D3475	T1 GUIDE ASS'Y	1					_
	A5791	TENSION LEG SPRING HOOK	1					
	A5820	TENSION SENSOR ASS'Y	1					
217 VEMO	M0645	LOADING MOTOR (1) A ASS'Y		<m></m>				
218 VES	S0814	MODE SW ASS Y	1	<m></m>				
219 VMAS	A9799	MOTOR ANGLE	1					
220 VMZ2	Z2737	MODE SW COVER	1					
	A6009	PINCH SOLENOID BASE (1)	1				<u> </u>	
		PINCH SOLENOID	1					
	A6010	CLEANER BASE (1) ASS'Y	1					_
	J0222	CLEANING SOLENOID	1	<m></m>				•
	K7927	INSULLATION SENSOR	1			***		_
	A6052	S POST BASE A ASS' Y	1	<m></m>				_
	L2838	TEN REG. TURN ARM ASS'Y	1					
	L2889	MAIN CAM ARM ASS'Y	1					
		PINCH ARM ASS'Y		<m></m>				Г
	L2833	T2 ARM ASS'Y	1					-
	L2870 L2709	S1 LOADING ARM ASS'Y	<u> </u>	<h>&gt;</h>	<b>—</b>			H
	L2709	CLEANING ARM A ASS'Y	_	<m>&gt;</m>		mv		Т
		PINCH TURN ARM (1) ASS'Y	1	CITY CITY				
	L2776	T LOADING ARM ASS'Y	-	<m>&gt;</m>				-
	L2839	TENSION ARM S (1) ASS'Y	1	<n></n>			-4-	-
	L2831		<del>  '</del>	SM2				-
	P1761	TENSION ROLLER	<u> </u>					H
	L2806	T4 ARM (1) ASS'Y	<u>'</u>					H
	A9753	STOPPER	1					H
239 VXP	P1683	T4 CONNECTION GEAR ASS'Y	1					H
			<u> </u>				L	H
			-				147	H
			<u> </u>					-
	N2+CF3	SCREW	11					L
	N2+A2	SCREW	4					L
B202 XQN	N14+CF3	SCREW	2					L
	N2+AM2	SCREW	3					L
B204 VHD	D1101	SCREW	2					L
B205 XQN	N2+CF6	SCREW	1					L
	N2+AM4	SCREW	1					L
B207 XQN	N2+A3	SCREW	1					L
	N2+CF5	SCREW	1					L
B209 XQN	N2+A35FZ	SCREW	3					L
B210 VHD	D0356	SCREW	1		L	ļ		L
B211 XQN	N2+CF4	SCREW	3					L
	Q0439	SCREW	3					Ĺ
1								I
						-		ſ
			T		·			Ī
W200 VMX	X0967	CUT WASHER	1	<u> </u>		<b></b>		T
	X1061	WASHER	3				- 111	t
	GV15Z32G	WASHER	2		<b></b>			t
	/GV 15232G /E16VW		1		<del></del>			1
		WASHER	<del></del>					+
	IC12FP	E-RING	2	-	ļ	<del></del>		H
W205 XWE		WASHER	1		<u> </u>			1-
	IX1079	CUT WASHER	1					H
W207 XWA	IA2B	WASHER	1					H
			L					L
								L
			Γ					L
	N0312	NUT	1			l		Ĺ
N200 VHN			Г			1	1	1

Ref. No. Part No. Part Name & DescriptionPcs

Remarks

#### **4** SUB CHASSIS PARTS SECTION



Note: 1. \*Be sure to make your orders of replacement parts according to this list. 2. IMPORTANT SAFETY NOTICE

Components identified with the mark  $\Delta$  have the special characteristics for safety. Whe any of these components, use only the same type.

anv	of these compone	ints, use only the same type.			,,,,,,,	**********		
uny .	or those compone	and, add only the dame type:			W301	VMX0653	CUT WASHER	1
			1	1	₩302	VMX1548	CUT WASHER	-2
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	W303	VMX1079	CUT WASHER	1
	VIIDOLLO	TRAV GTORRED A	L.					_
300	VMD3019	TRAY STOPPER A	1					_
301	VMD2853	MIC STOPPER	1					
302	VML3292	COMMUNICATION ARM	1					
303	VML3293	TRAY CONNECTION ROD	1					
304	VXA5575	S-BRAKE SOLENOID BASE	1					
305	VXA5887	T-BRAKE SOLENOID BASE	1					
306	VSJ0216	BRAKE SOLENOID	2	<m></m>				
307	VXA6012	MIC CONNECTOR (1) ASS'Y	1					
308	VXL2777	MIC DRIVE ARM (1) ASS Y	1					
309	VXL2780	MIC SUBLINK ARM (1) ASS'Y	1					
310	VEK8225	PHOTO SENSOR HOLDER (1)	2					
311	VXK1352	SUB CHASSIS (2) ASS'Y	1					
312	VXP1842	LOCK GEAR (1) ASS'Y	1					
313	VSC4699	SHIELD CASE B	1					
							·	
			_					
B300	XQN2+CF3	SCREW	10					
B301	XQN2+A1.5	SCREW	4		1			
B302	XQN2+CF4	SCREW	1					
B303	XYN26+J5	SCREW	4					

Ref. No

W300

Part No.

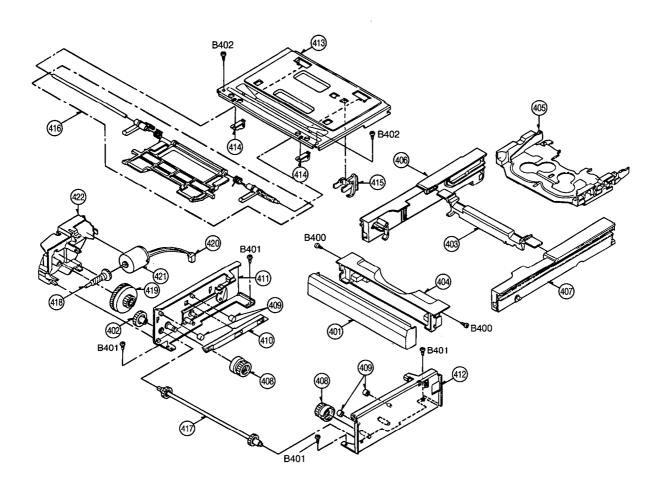
VMX0967

Part Name & DescriptionPcs

CUT WASHER

Remarks

#### **6** CASSETTE TRAY PARTS SECTION



Note: 1. \*Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	orPcs	Remarks
401	VGP4573	TRAY FRONT PANEL	1	
402	VDG1263	SYNCHRO. DRIVE GEAR	1	
403	VMD2845	REAR GUIDE	1	
404	VMD2846	FRONT GUIDE	1	
405	VXA5990	CASSETTE HOLDER ASS'Y	1	
406	VXA5991	S RACK ASS' Y	1	
407	VXA5992	T RACK ASS' Y	1	
408	VDG1260	PINION GEAR	2	
409	VDP1687	ROLLER	4	
410	VMD2847	FRONT PROJECTION	1	
411	VXA6023	SIDE PLATE (S)	1	
412	VXA6024	SIDE PLATE (T)	1	
413	VMA9797	CASSETTE COVER	1	
414	VMD2849	TOP GUIDE	2	
415	VML3286	COVER OPEN LEVER	1	
416	VXA5999	BOOSTER (1) ASS'Y	1	
417	VXA6000	TRAY DRIVE SHAFT ASS'Y	1	
418	VDG1264	WORM GEAR	1	
419	VDG1265	WORM FOIL GEAR	1	
420	VEE0B83	MOTOR WIRE CABLE	1	
421	VEM0644	TRAY MOTOR	1	
422	VMD2850	GEAR BOX	1	
B400	XTB26+8JFZ	SCREW	2	
B401	XSN2+3R	SCREW	4	
B402	XTB2+35FFY	SCREW	2	

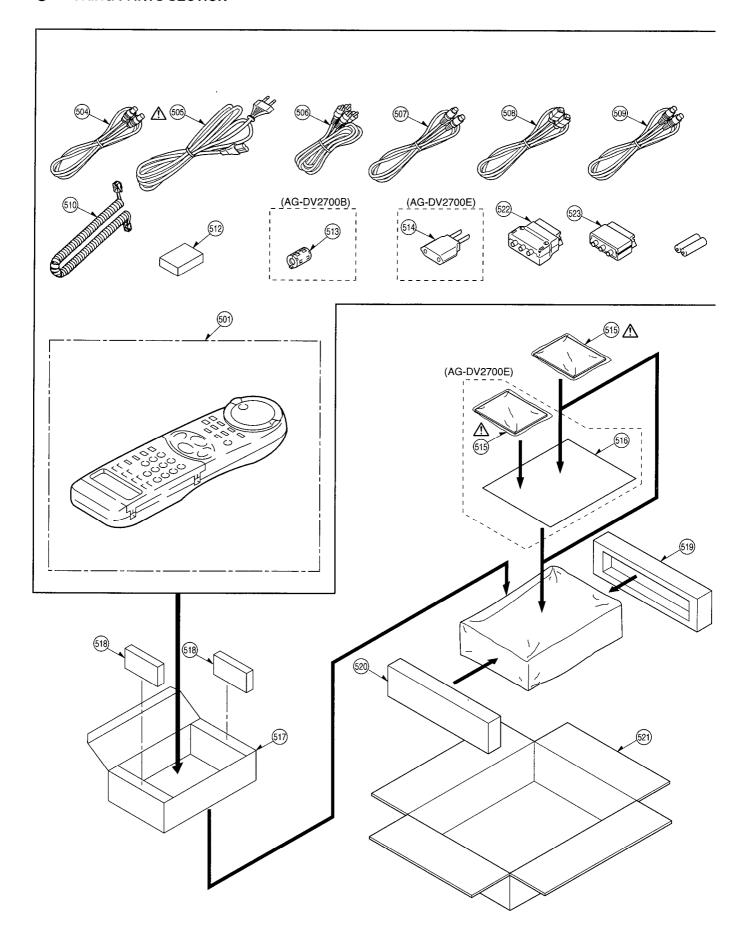
	ı			<u> </u>	
ing	ſ				
	ı			Г	
	ł	 **-			
	ŀ	 	, , , , , , , , , , , , , , , , , , , ,		
$\dashv$	ŀ	 		⊢	
	ŀ	 			
_	ļ	 			
	ı	 ,		Ļ	
	۱	 			
	ı	 			
	ı	 			
$\dashv$	ŀ	 			
	H	 	1		
$\dashv$	ŀ	 			
	ı	 		⊢	<u>.</u>
	ı				
ŀ	П				
	ı				
_	ı				
	H				
	Н			t	
	Н	 		$\vdash$	
	H	 			
	П			┢	
	П		<u> </u>	_	
	П	 		<u> </u>	
	П				
	ı				
	П	 			
-	Н	 		T	
	Н	 		1	
	Ш	 		1	
				₩	
		 		<u> </u>	
	П				
	H			L	
_		 ·			

Part Name & DescriptionPcs

Remarks

Ref. No.

Part No.



Note: 1. \*Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE

Components identified with the mark △ have the special characteristics for safety. When replacing

	any of these components, use only the same type.								
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks					
		•							
501		REMOTE CONTROLLER	1					L	
504		S-VHS CABLE	1					┢	
	VJA0940	AC CORD	1	10 0/07005				⊢	
<u>↑</u> 505	VJA0754 VJA1059	AC CORD		AG-DV2700E AG-DV2700E				╁	
<u>↑</u> 505		AV OUTPUT CABLE	1	AG-072700E				┢	
507		DIN RF CABLE	_	AG-DV2700B					
		DV CABLE	1	-					
509	VJA0787	EDIT 5P CABLE	1					L.	
		CONTROLLER CABLE	1						
		VIDEO HEAD CLEANING TAPE	1			.,		_	
		FERRITE CORE	-	AG-DV2700B				┡	
		AC PLUG ADAPTOR OPERATING INSTRUCTION	1	(ENGLISH) AG-DV2700E				-	
	VQT7776 VQT7777	OPERATING INSTRUCTION	1	(GERMAN) AG-DV2700E					
		OPERATING INSTRUCTION	1	(FRENCH) AG-DV2700E					
		OPERATING INSTRUCTION	1	(ITALIAN) AG-DV2700E				T	
		OPERATING INSTRUCTION	1	(CHINESE) AG-DV2700E					
<u> </u>		OPERATING INSTRUCTION	1	(RUSSIAN) AG-DV2700E					
<b>⚠</b> 515		OPERATING INSTRUCTION	1	(SPAN1SH) AG-DV2700E					
		OPERATING INSTRUCTION	1	AG-DV2700B					
516		PAD	1					$\vdash$	
		ACCESSORIES PACKING	1					$\vdash$	
518 519	VPN4999 VPN4748	SPACER CUSHION (R)	1					-	
520	VPN4748 VPN4749	CUSHION (L)	- <del> </del>					-	<del> </del>
521		PACKING CASE		AG-DV2700E					
521		PACKING CASE	-	AG-DV2700B				1	
522		AV ADAPTOR (IN)	1		***				
523	VFA0163	AV ADAPTOR (OUT)	1						
								┖	
								_	
			_				-		
					-			H	
								H	
			-		· · · · · · · · · · · · · · · · · · ·				
								_	
								╙	
			_	·				<u> </u>	
	-				-			┝	
								$\vdash$	
-			-					$\vdash$	
						L		Т	
								Γ	
							(		
								L	
			_					-	
			<u> </u>		<u> </u>			-	
			_						
			$\vdash$		<u> </u>			-	
			Н			L-		Т	
			Т						
				****					
								_	
			_					_	
			$\vdash$		-			-	
			$\vdash$					-	
			$\vdash$						
								Γ	
	·	<u> </u>	_				<del></del>	•	

Ref. No.

Part No.

Part Name & DescriptionPos

Remarks

#### 4-2. ELECTRICAL REPLACEMENT PARTS LIST

- Note: 1. Be sure to make your orders of replacement parts according to this list.

  2. IMPORTANT SAFETY NOTICE: Components identified with the mark  $\Delta$  have the special characteristics for safety. When replacing any of these components, use only the same type.

  3. Unless otherwise specified,
  All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF

		'NOTICE: Components identified with ity. When replacing any of these com							
	acteristics for sale		pone	ans, use only the same type.		VEP06C40A	MAIN C.B.A.	1	(RTL) AG-DV2700E
		MS, K=1,000 OHMS. All capacitors a	re in	MICROFARADS (uf), P=uuF.		VEP06C40B	MAIN C. B. A.	1	(RTL) AG-DV2700B
4. The	P.C. Board units i	narked width "" show below the main	n ass	embled parts.		VEP03E27A	ANALOG C. B. A.	١,	(RTL) INCLUDED IN
		licaters the retention time is limited for			ļ <u>-</u>	TEI GOLLIN	MINESC C. D. A.	H	VEP06C40A/B
After	the discontinuation	on of this assembly in production, it wi	ll no	longer be available.		■ VEP03E28A	INPUT/OUTPUT C. B. A.	-	(RTL) INCLUDED IN
						VEFUSEZOA	THEODOGFOT C. B. A.	<del>⊢</del> '	VEP06C40A/B
Ref. No.	Part No.	Part Name & Description	Б.,	Remarks		■ VEP03E29A	REAR JACK C. B. A.	-	(RTL) INCLUDED IN
Kel. No.	Tart No.	Fart Name & Description	FC	Remarks		VEFUSEZBA	REAR DAON C. B. A.	<del> </del> '	*
	VED000101		<del>                                     </del>	(==) )	ļ			<u>-</u> -	VEP03E28A
	VEP06C40A	MAIN C, B. A.	1	(RTL) AG-DV2700E	ļ	VEP07801AR	TV MODULATOR PACK C. B. A.	1	(RTL) INCLUDED IN
	VEP06C40B	MAIN C. B. A.	1	(RTL) AG-DV2700B		ļ			VEP06C40A
			L			VEP07801AQ	TV MODULATOR PACK C. B. A.	1	(RTL) INCLUDED IN
	VEP03E27A	ANALOG C. B. A.	1					匚	VEP06C40B
			L	VEP06E40A/B		VEP07973B	NICAM DECODER C. B. A.	1	(RTL) INCLUDED IN
	VEP03E28A	INPUT/OUTPUT C. B. A.	1	(RTL) INCLUDED IN	1				VEP06C40A
				VEP06E40A/B		VEP07973A	NICAM DECODER C. B. A.	1	(RTL) INCLUDED IN
	VEP03E29A	REAR JACK C. B. A.	1	(RTL) INCLUDED IN		1			VEP06C40B
	i			VEP03E28A/B		VEP06C89A	MOTOR DRIVE C. B. A.	1	(RTL) INCLUDED IN
	VEP07801AR	TV DEMODULATOR PACK C. B. A.	1	(RTL) AG-DV2700E				Ė	VEP06C40A/B
			H	INCLUDED IN VEPOSE40A		VEP03E55A	DIGITAL C. B. A.	1	(RTL) INCLUDED IN
	VEP07801AQ	TV DEMODULATOR PACK C. B. A.	1	(RTL) AG-DV2700B		VEI COLOON	DIGITAL G. B. A.	÷	VEP06C40A/B
<del>                                     </del>	VEI OVOOTAG	TO DEMODELATOR TACK O. B. A.	<del>-</del> -		<u> </u>	VEP04669B	AUDIO O D A	_	
	VEP07973B	W 04W 0500055 0 0 1	-	INCLUDED IN VEP06E40B	_	VEP04669B	AUDIO C. B. A.	_	(RTL) INCLUDED IN
-	VEPU/9/3B	NICAM DECODER C. B. A.	1	(RTL) AG-DV2700E					VEP06C40A/B
			<u> </u>	INCLUDED IN VEPOGE40A	L	<u> </u>			
	VEP07973A	NICAM DECODER C. B. A.	1	(RTL) AG-DV2700B					
			L	INCLUDED IN VEP06E40B	C0701-03	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	3	
	VEP06C89A	MOTOR DRIVE C. B. A.	1	(RTL) INCLUDED IN	C0704	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
				VEP06E40A/B	C0705	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1	
	VEP03E55A	DIGITAL C. B. A.	1	(RTL) INCLUDED IN	C0706	ECEA1HKAOR1		1	
			Т	VEP06E40A/B	h	+	C. CAPACITOR CH 50V 0.01U	2	
-	VEP04669B	AUDIO C. B. A.	1	(RTL) INCLUDED IN	C0709		C. CAPACITOR CH 50V 12P	1	
	12. 5 10005	7.0510 0.5171.	Ė	VEP06E40A/B	00710		C. CAPACITOR CH 50V 47P	1	
			-	VEFUGE4UA/ B	-	1			<del></del>
	VED05054.4	11515 1415 6.5		(571)	C0711		E. CAPACITOR 16V 22U	1	
	VEP05351A	HEAD AMP C.B.A.		(RTL)	C0712	-	C. CAPACITOR CH 50V 0.01U		
					C0714	ECQB1H473JF		1	
	VEP02557B	MECHANISM DRIVE C.B.A.	_1	(RTL)	C0715	+	C. CAPACITOR CH 50V 0.01U	1	
					C0716	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
	VEP07977A	TIMER C. B. A.	1	(RTL)	C0717	ECUX1H270JPV	C. CAPACITOR CH 50V 27P	1	
					C0718	ECEA1HKSR47	E. CAPACITOR 50V 0. 47U	1	
	VEP04695A	FRONT (L) C. B. A.	1	(RTL)	C0719	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1	
					C0720	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1	<u> </u>
	VEP04696D	FRONT (R) C.B.A.	1	(RTL)	C0722	•	C. CAPACITOR CH 50V 0. 01U	1	
					C0723	t	E. CAPACITOR 50V 0.1U	<u> </u>	
	VEP07966A	MODULAR C. B. A.	1	(RTL)	C0724		P. CAPACITOR 50V 0. 047U	1	
			$\dashv$		C0726		C. CAPACITOR CH 50V 0. 01U	1	
	VEP07965A	FRONT LED C. B. A.		(RTL)	C0729	<del> </del>		- <u> </u> -	
	VET 07803A	PRONT EED G. B. A.	'	(RIL)			E. CAPACITOR 16V 10U		
	VEP07968B	10.004		(DTI)	C0730		C. CAPACITOR CH 50V 0.01U	1	
-	VEPU/968B	IR C. B. A.	1	(RTL)	C0732		C. CAPACITOR CH 50V 0.01U	1	
					C1 001	ECEA0JKS101		1	
	VEP03E18A	5P JACK C. B. A.	1	(RTL)	C1 002	ECEA1AKS470		1	<u> </u>
					C1 003	ECEAOJKS101	E. CAPACITOR 6, 3V 100U	1	l
	VEP07967A	DV JACK C. B. A.	- 1	(RTL)	C1004	ECEA1AKS470	E. CAPACITOR 10V 47U	1	
E					C1009	ECEA1AKS221	E. CAPACITOR 10V 220U	1	
	VEP01814A	POWER SUPPLY C. B. A.	1	(RTL)	C1010	ECEA1HKA010	E. CAPACITOR 50V 1U	1	
			$\neg$	*** ***********************************			C. CAPACITOR CH 50V 0. 01U	2	
					C1013		C. CAPACITOR CH 50V 0. 047U	1	
	ENG47288G1	TUNER	1	AG-DV2700E	C1014		C. CAPACITOR CH 50V 0. 01U	<u> </u>	
					C1016		C. CAPACITOR CH 50V 0. 1U	<u> </u>	
	ENG47289G1	TUNER	-	AG-DV2700B	C1018	ECEA1HKS010		1	
	/20301			יים אוגועטט	1			_	
F1101	VDAGGA GTUAF	FURE	-		C1019		C. CAPACITOR CH 50V 0.1U	_1	
F1101	XBA2C16TH15	FUSE	_1		C1022	ECEA1HKS010		_1	
-			_		C1023	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	_1	1
					C1024	ECEA1CKS470		1	
					C1 025	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
			]		C1 026	ECUX1H682KBN	C. CAPACITOR CH 50V 6800P	1	
			$\exists$		C1027	ECEA1CKS100	E. CAPACITOR 16V 10U	1	
					C1028		E. CAPACITOR 16V 3300U	1	-,
					C1029		C. CAPACITOR CH 50V 0. 01U	1	
•					C1030		E. CAPACITOR 18V 3300U	i	
			-		C1031		C. CAPACITOR CH 50V 0.1U	ᇻ	**************************************
<del> </del>			$\dashv$					-	
			-		C1 032		E. CAPACITOR 16V 3300U	1	
						ECEA1HKS010		2	
ļ ļ			_			ECEAOJKS101		6	
			_		C1041		C. CAPACITOR CH 50V 0. 01U	1	
			_		C1042	ECEA1HKS010	E. CAPACITOR 50V 1U	1	
					L			_[	
	_				l	1		1	

Ref. No.

Part No.

Part Name & DescriptionPcs

Remarks

								,	
Dof No	Part No.	Part Name & DescriptionPos	Remarks	Ref. No.	Part No.	Part Name & Desci	rintio	Pos	Remarks
Ref. No.			Remarks	<del></del>		C. CAPACITOR CH 50V		2	
C1043		E. CAPACITOR 6.3V 100U 1						-	
C1045	ECEAOJKS101				ECEA1CKA101		1000	2	
C1047, 48	ECEA0JKS101	E. CAPACITOR 6.3V 100U 2		C3001		C. CAPACITOR CH 10V	10	1	
C1049	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U 1	l f	C3002	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 010	1	
C1050, 51	ECEA1CKS101	E. CAPACITOR 16V 100U 2		C3003	ECSTOJY106Z	T. CAPACITOR CH6. 3V	100	1	
		C. CAPACITOR CH 50V 0.01U 2		C3004 05		C, CAPACITOR CH 16V	10	2	
				C3006		C. CAPACITOR CH 50V		1	
C1056	ECEA1CKS470							1 2	· · · · · · · · · · · · · · · · · · ·
C1057	ECUM1H103KBN	C. CAPACITOR CH 50V 0. 01U 1				C. CAPACITOR CH 16V	10	_	
C1058	ECEA1EKS330	E. CAPACITOR 25V 33U 1		C3010-12	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 10	3	
C1059	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U 1		03013	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
C1060	ECEAOJKS470			C3014	ECSTOJY106Z	T. CAPACITOR CH6. 3V	100	1	
				C3015		T. CAPACITOR CH 16V	3. 3U	1	
C1061	ECEA1CKS101			<b></b>				<del>  `</del>	
C1062	ECEA1EKS330	E. CAPACITOR 25V 33U 1		C3016		C. CAPACITOR CH 50V	0. 010	1	
C1063	ECEAOJKS101	E. CAPACITOR 6.3V 100U 1	l	C3017	ECSTOJY106Z	T. CAPACITOR CH6. 3V	1 OU	1	
C1064	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U 1		C3018	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
· · · · · -		C. CAPACITOR CH 16V 0.1U 3		C3019	ECSTO-IY1067	T. CAPACITOR CH6. 3V	100	1	
	<del></del>			C3020		C. CAPACITOR CH 16V	1Ü	1	
								-	
C2007-09	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U 3		C3021		T. CAPACITOR CH 16V	3. 30	1	
C2010	ECSTOJD107Z	T. CAPACITOR CH6. 3V 100U 1		C3023	ECUX1H681JCV	C. CAPACITOR CH 50V	680P	1	
02011-13	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U 3		03024	ECUX1H152KBV	C. CAPACITOR CH 50V	1500P	1	
		C. CAPACITOR CH 50V 0.01U 2		C3025		C. CAPACITOR CH 50V	. 27P	1	
			<del> </del>	C3026		C. CAPACITOR CH 50V	22P	+	
								H:	
C2018		C. CAPACITOR CH 16V 1U 1	ļ	C3027		C. CAPACITOR CH 50V	15P	1	
C2019	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P 1		C3028-30	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 010	3	
C2020	ECSTOJX226Z	T. CAPACITOR CH6. 3V 22U 1		C3031	ECUX 1A105KBN	C. CAPACITOR CH 10V	10	1	
C2021		T. CAPACITOR CH6. 3V 10U 1		C3032	ECSTOJY106Z	T. CAPACITOR CH6. 3V	100	1	
02021		C. CAPACITOR CH 50V 1000P 1	<del> </del>	C3033		C. CAPACITOR CH 50V		1	
			<del></del>					1	
C2023		T. CAPACITOR CH6. 3V 10U 1	2-200	C3034		C. CAPACITOR CH 25V		₽.	
C2024	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U 1		C3035		C. CAPACITOR CH 50V	0. 010	1	
C2025	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U 1	1	C3036	ECUX1H100CCV	C. CAPACITOR CH 50V	1 OP	1	
C2026	ECSTOJY106Z	T, CAPACITOR CH6. 3V 10U 1		C3037	ECUX1C105ZFN	C. CAPACITOR CH 16V	10	1	
		C. CAPACITOR CH 16V 0.1U 4		03038 39	FCUX1H101.JCV	C. CAPACITOR CH 50V	100P	2	
		0. 0/1/10/10/10/10/10/10/10/10/10/10/10/10/					10	2	
02031-33		T. CAPACITOR CH 35V 3.3U 3				C. CAPACITOR CH 16V		+	
02201.02	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U 2		C3042		C. CAPACITOR CH 50V	0. 01 U	1	
C2203	ECEAOJKS330	E. CAPACITOR 6.3V 33U 1		C3043, 44	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 10	2	
C2204	ECEAOJKS470	E. CAPACITOR 6.3V 47U 1		C3045-48	ECUX1C104KBV	C. CAPACITOR CH 16V	0. 1U	4	
C2205	<del></del>	C. CAPACITOR CH 50V 0.01U 1		03049-54	ECUM1C104ZEN	C. CAPACITOR CH 16V	0. 1U	6	
		C. CAPACITOR CH 50V 0.1U 2		C3056		C. CAPACITOR CH 16V	0, 1U	1	1
	-						0. 010	1	
C2209		C. CAPACITOR CH 50V 12P 1		C3057		C. CAPACITOR CH 50V		+	
C2210		C. CAPACITOR CH 50V 20P 1		C3059	·	C. CAPACITOR CH 50V	0. 010	1	
C2211, 12	ECUM1 HOGOCON	C. CAPACITOR CH 50V 6P 2		03060	ECUX1H270JCV	C. CAPACITOR CH 50V	27P	1	
02213	ECUM1H151JCN	C. CAPACITOR CH 50V 150P 1		C3061	ECUX1H220JCV	C. CAPACITOR CH 50V	22P	1	
C2214	ECUM1H103ZEN	C. CAPACITOR CH 50V 0.01U 1		C3062-65	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 1U	4	
C2215	<del></del>	C. CAPACITOR CH 50V 1000P 1		C3067		T. CAPACITOR CH6. 3V	220	1	
						C. CAPACITOR CH 16V	0. 10	5	
C2216		C. CAPACITOR CH 50V 2200P 1							
C2217	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U 1				C. CAPACITOR CH 50V	0. 010	5	
C2218	ECEAOJKS101	E. CAPACITOR 6. 3V 100U 1		C3078, 79		C. CAPACITOR CH 50V	7P	2	
C2222	ECEAOJKS470	E. CAPACITOR 6. 3V 47U 1		C3080	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
02223	ECUM1H104ZEN	C. CAPACITOR CH 50V 0.1U 1		C3081	ECUM1C104ZFN	C, CAPACITOR CH 16V	0. 1U	1	
		C. CAPACITOR CH 50V 0.1U 2		C3082		C. CAPACITOR CH 50V	100P	1	
				03083		C. CAPACITOR CH 16V		+	
C2227	VCE0073	CAPACITOR (N) UNIT 1		<u> </u>				1	
C2228	ECEA1AKS221			C3084		C. CAPACITOR CH 16V		+	
C2229		C. CAPACITOR CH 50V 0.1U 1		C3085		C. CAPACITOR CH 50V		+	
C2231	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U 1		C3086, 87	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	2	
C2233		C. CAPACITOR CH 50V 0.01U 1		C3090, 91	ECUX I H 1 03ZFV	C. CAPACITOR CH 50V	0. 01U	2	
02234		C. CAPACITOR CH 50V 56P 1		C3092		C. CAPACITOR CH 50V	•••	1	
						C. CAPACITOR CH 16V	10	-	
02235		C. CAPACITOR CH 50V 1000P 1						-	
		C. CAPACITOR CH 50V 0.01U 6				C. CAPACITOR CH 16V		+	
C2501	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U 1		C3099-02		C. CAPACITOR CH 16V		4	
C2502, 03	ECEA1CKA101	E. CAPACITOR 16V 100U 2		C3103	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
	ECEA1CKA101			C3104-07	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 10	4	
		C. CAPACITOR CH 50V 0. 1U 2		C3108		C. CAPACITOR CH 16V		-	
	+		<del>                                     </del>			C. CAPACITOR CH 50V	15P	-	
C2509	ECEA1CKA101							+	
C2510	ECUX1H682KBN	C. CAPACITOR CH 50V 6800P 1				C. CAPACITOR CH 50V	•	+	
C2511	ECEA1CKA101	E. CAPACITOR 16V 100U 1		C3113-15	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 1U	3	
C2512. 13	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U 2		C3116, 17	ECSTOJY106Z	T. CAPACITOR CH6. 3V	100	2	
C2514		C. CAPACITOR CH 50V 0. 01U 1				C. CAPACITOR CH 50V	0. 01U	2	
	t					C. CAPACITOR CH 16V	0. 10		· · · · · · · · · · · · · · · · · · ·
C2515	<del></del>	I							<del> </del>
		C. CAPACITOR CH 50V 0.1U 2	<del></del>	C3205		T. CAPACITOR CH6. 3V		+	
C2521	ECEA1CKA101	E. CAPACITOR 16V 100U 1		C3206	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 010	1	
C2522	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U 1		03207	ECUX1H103KBV	C. CAPACITOR CH 50V	0. 01U	1	
		C. CAPACITOR CH 50V 'O. 01U 2		C3208		C. CAPACITOR CH 16V	0. 1U	1	
-						C. CAPACITOR CH 50V		+	1
C2525		C. CAPACITOR CH 50V 6800P 1						+	
C2526	ECEA1CKA101	E. CAPACITOR 16V 100U 1				C. CAPACITOR CH 16V	0. 1U	-	
C2527	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U 1		C3214	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 1U	1	~~~
								_	
<del></del>	1				1				
1									

Ref. No.	Part No.	Part Name & Descriptio	rPc	s Remarks	Ref. No.	Part No.	Part Name & Description	rPc	s Remarks
C3215	ECSTOJY106Z	T, CAPACITOR CH6, 3V 10U	1		C3362	+	C. CAPACITOR CH 25V 1000F	_	1
C3216-18	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	3		C3363-65	+	C. CAPACITOR CH 50V 100F	-	3
C3219		C. CAPACITOR CH 25V 0. 027U	+-			+	C. CAPACITOR CH6. 3V 0. 1L	-	4
03220	l	C. CAPACITOR CH 50V '0. 01U	+	<del></del>			C. CAPACITOR CH 50V 100F		2
03221	<del> </del>	C. CAPACITOR CH 16V 0.1U	+-					+	5
C3222	<del> </del>		+					-	
	1	C. CAPACITOR CH 50V 0. 01U	+		C3379	<del> </del>	C. CAPACITOR CH 25V 1000P	+	
C3223		C. CAPACITOR CH 10V 1U	-		C3380	-	T. CAPACITOR CH6. 3V 47U	+	<del> </del>
C3224		T. CAPACITOR CH6. 3V 10U	1		C3601	+	C. CAPACITOR CH 50V 0.1U	-	
		C. CAPACITOR CH 16V 0.1U	2		C3602	ECEAOJKS470	E. CAPACITOR 6. 3V 47U		1
03227	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		C3603	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	<u>                                     </u>
C3228	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	_ 1		C3604	ECEAOJKS470	E. CAPACITOR 6. 3V 47U		
C3229	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1		C3605	ECAOJM221	E. CAPACITOR 6.3V 220U	T	
03230	ECUX1H103KBV	C. CAPACITOR CH 50V 0. 01U	1		C3606	ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U	1	
C3231	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1		C3607	ECEA1CKS100	E. CAPACITOR 16V 10U	1	
03232	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1		C3608	ECAOJM331	E. CAPACITOR 6.3V 330U	1	
03233	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	1		C3609	ECEA1CKS100	E. CAPACITOR 16V 10U	1	
		C. CAPACITOR CH 50V 0.01U	2		C3610	ECAOJM331	E. CAPACITOR 6.3V 330U	-	
C3236		C. CAPACITOR CH 16V 0.1U	1		C3611	ECEA1HKS010		-	
	-	C. CAPACITOR CH 50V 0.01U	2						
C3237, 36			1						
		T. CAPACITOR CH6. 3V 10U	<del></del> -		C3616	<del></del>	C. CAPACITOR CH 50V 0.01U		-
03240		C. CAPACITOR CH 50V 0.01U	1		C3617	<del> </del>	E. CAPACITOR 6. 3V 100U	+	
	<b>-</b>	C. CAPACITOR CH 16V 0. 1U	2				C. CAPACITOR CH 50V 0. 01U	+	
		C. CAPACITOR CH 50V 0. 01U	1		C3620	<del> </del>	C. CAPACITOR CH 50V 0.1U	+	
		C. CAPACITOR CH 50V 0.01U	1		C3621	ECQP1392JZ	CAPACITOR (0) UNIT	1	
	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1		C3622	ECUM1H152KBN	C. CAPACITOR CH 50V 1500P	1	
		C. CAPACITOR CH 50V 0.01U	1		C3623	ECEAOJKS330	E. CAPACITOR 6. 3V 33U	1	
C3247	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1		03624	ECEA1 CKA1 00	E. CAPACITOR 16V 10U	1	
C3248, 49	ECUX1C104KBV	C. CAPACITOR CH 16V 0.1U	2		C3625	ECEA1HKGR68	E. CAPACITOR 50V 0. 68U	1	
C3250	ECUX0J225KBN	C. CAPACITOR CH6. 3V 2. 2U	1		C3626	ECUX1H561JCN	C. CAPACITOR CH 50V 560P	1	
C3251-53	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	3		C3627	ECEA1AKS221	E. CAPACITOR 10V 220U	1	
		C. CAPACITOR CH 16V 0.1U	-		C3628	ECEA1EKS4R7		-	
_		C. CAPACITOR CH 50V 0. 01U	-		C3629	<del> </del>	C. CAPACITOR CH 50V 470P	1	<b>}</b>
		T. CAPACITOR CH6. 3V 47U	1		C3630		C. CAPACITOR CH 16V 0. 33U	+	
		C. CAPACITOR OH 16V 0.1U	<u> </u>		C3631		C. CAPACITOR CH 50V 0. 01U	1	
		C. CAPACITOR CH 50V 0.01U	1					+	
			<u> </u>		C3632	-	P. CAPACITOR 50V 0. 068U	1	
		C. CAPACITOR CH 18V 0.1U	1		C3633		C. CAPACITOR CH 50V 1500P	1	
		C. CAPACITOR CH 50V 0. 01U	1		C3634	ECEA1HKS010		1	
<b>—</b>		T. CAPACITOR CH6. 3V 10U	1				C. CAPACITOR CH 16V 0.1U	2	
		C. CAPACITOR CH 50V 27P	1		03703	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
		C. CAPACITOR CH 50V 0.01U	1		C3704-06	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	3	
		T. CAPACITOR CH6. 3V 100U	1		C3707	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	
C3281	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U	1		C3710-12	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	3	
C3282	ECSTOJY106Z	T. CAPACITOR CH6, 3V 10U	1		C3713	ECUX1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C3283	ECSTOJX476Z	T. CAPACITOR CH6. 3V 47U	1		C3714	ECUX1H271JCV	C. CAPACITOR CH 50V 270P	1	
C3284	ECUX1H100CCV	C. CAPACITOR CH 50V 10P	1		C3715-18	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	4	
C3301	ECUXOJ104KBQ	C. CAPACITOR CH6. 3V 0. 1U	1		C3719-21	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	3	
C3302	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1				C. CAPACITOR CH 16V 0.1U	4	***
-		C. CAPACITOR CH 50V 100P	2		ļ		C. CAPACITOR CH 50V 0. 01U	1	
		C. CAPACITOR CH 25V 1000P	-		C3901	ECEA1CKA100		<del>-</del>	
		C. CAPACITOR CH 50V 100P	5		C3902			-	
	-	C. CAPACITOR CH 25V 1000P	1		C3902			-	
						ECEAOJKA101		1	
·			1		C3904		C. CAPACITOR CH 16V 1U	-	
		C. CAPACITOR CH 25V 1000P	4		C3905	ECEAOJKA101		1	
		C. CAPACITOR CH 50V 100P	1			ECEA1CKA100		1	
		C. CAPACITOR CH 25V 1000P	1		C3907	ECEAOJKA470		1	
<del></del>		C. CAPACITOR CH 50V 47P	1				C. CAPACITOR CH 50V 0.1U	1	
		C. CAPACITOR CH 50V 100P	1		C3909	ECEA1CKA470	E. CAPACITOR 16V 47U	1	
	ECUX1H470JCQ	C. CAPACITOR CH 50V 47P	1		C4001	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
		C. CAPACITOR CH 50V 100P	6		C4002	ECEA1EKS4R7	E. CAPACITOR 25V 4. 7U	1	
C3328	ECUXOJ104KBQ	C. CAPACITOR CH6. 3V 0. 1U	1		C4003	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	
-		C. CAPACITOR CH 50V 100P	2		C4004	ECEA1CKS101		1	
		C. CAPACITOR CH 25V 1000P	1		C4005	VCEA1CAW220	****	1	
		C. CAPACITOR CH 50V 100P	2		C4006		C. CAPACITOR CH 50V 0. 22U	1	
		C. CAPACITOR CH 50V 100P	1		C4007	VCEA1CAW220		1	
		C. CAPACITOR CH 50V 100P	1				CAPACITOR (P) UNIT	1	
h +		C. CAPACITOR CH 25V 1000P	1						
-			$\rightarrow$			VCEA1CAS102		2	
		C. CAPACITOR CH6. 3V 0. 1U	1				CAPACITOR (P) UNIT	1	
		C. CAPACITOR CH 25V 1000P	1			VCEA1CAW220		1	
		C. CAPACITOR CH6. 3V 0. 1U	2				C. CAPACITOR CH 50V 33P	1	
		C. CAPACITOR CH 25V 1000P	8				C. CAPACITOR CH 50V 33P	1	
		C. CAPACITOR CH 50V 100P	1		C4207	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
		C. CAPACITOR CH 25V 1000P	2		C4211	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1	
C3354-56	ECUX1H101JCQ	C. CAPACITOR CH 50V 100P	3		C4212	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1	
C3357	ECUX1E102KBQ	C. CAPACITOR CH 25V 1000P	1		C4213	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1	
C3360, 61	ECUX1H101JCQ	C. CAPACITOR CH 50V 100P	2		-		C. CAPACITOR CH 50V 33P	1	
			1					_	
T			-1						

			_							<del></del>
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Descri	iption	Pcs	Remarks_
		C. CAPACITOR CH 50V 1500P	1			ECEA1CKS100		100	1	
			÷				C. CAPACITOR CH 50V		2	
	-		_					100	2	· · · · · · · · · · · · · · · · · · ·
	_	C. CAPACITOR CH 16V 0.1U	1			ECEA1CKS100				
C4219	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	_1					0. 01U		
C4220, 21	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	2		C4707	ECUM1H104ZFN	C. CAPACITOR CH 50V	0. 1U	1	
C4222, 23	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	2		C4708-11	VCEA1CAW100	E. CAPACITOR 16V	100	4	
		C. CAPACITOR CH 50V 1500P	2		C4901-04	ECUM1H471JCN	C. CAPACITOR CH 50V	470P	4	
	VCEA1AAE101		1			ECEA1AKA470		47U	1	1
			H				C. CAPACITOR CH 50V	0. 10	1	
	ECHR1H103JZ		_							
C4304	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1				C. CAPACITOR CH 50V	470P	- 8	
C4305	VCEA0JAE221	E. CAPACITOR 6.3V 220U	1		C6001	ECUX1C274KBN	C. CAPACITOR CH 16V	0. 270	1	
C4306	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C6002	ECSTOJD107Z	T. CAPACITOR CH6. 3V	1000	1	
C4307	VCEA0JAE221	E. CAPACITOR 6.3V 220U	1		C6003	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 1U	1	
		C. CAPACITOR CH 50V 0.1U	1		C6004	ECUX1H120JCV	C. CAPACITOR CH 50V	12P	1	
		C. CAPACITOR CH 50V 33P	÷				C. CAPACITOR CH 16V	0. 1U	1	
			-					100P	2	
		C. CAPACITOR CH 16V 0.1U	1				C. CAPACITOR CH 50V		-	-
C4311	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1				C. CAPACITOR CH 16V	0. 1U	1	
C4312	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1		C6009, 10	ECUX1H103KBV	C. CAPACITOR CH 50V	0. 010	2	
C4313	ECEA1CKA100	E. CAPACITOR 16V 10U	1		C6011, 12	ECUX1E223KBV	C. CAPACITOR CH 25V 0	). 023U	2	
		C. CAPACITOR CH 50V 33P	1		C6015	ECUX1H103ZFV	C. CAPACITOR CH 50V	0.010	1	
·		C. CAPACITOR CH 16V 0.1U	1	<del></del>			C. CAPACITOR CH 16V	0. 1U	2	
1			÷				T. CAPACITOR CH6. 3V	100U	1	
	VCEA1CAE100		1						- 1	
	ECEA1CKA100		_1				C. CAPACITOR CH 16V	0. 10	- 1	<del></del>
C4318	ECUM1E683KBN	C. CAPACITOR CH 25V 0. 063U	1				C. CAPACITOR CH 50V	12P	_1	
C4319	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C6022-25	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 1U	4	
	VCEA0JAE470		1		C6026	ECSTOJD107Z	T. CAPACITOR CH6. 3V	100U	1	
	ECHR1H103JZ		1				C. CAPACITOR CH 16V	0. 1U	1	·
			H	<del></del>			C. CAPACITOR CH 50V	100P	3	1
		C. CAPACITOR CH 25V 0. 063U	⊢:							****
	VCEA1CAE100		_1				C. CAPACITOR CH 50V	100P	2	-
C4324	ECUM1E683KBN	C. CAPACITOR CH 25V 0. 063U	1		C6035	ECUM1C104ZFN	C. CAPACITOR CH 16V	0, 1ป	1	
C4325, 26	VCEA1HAE2R2	E. CAPACITOR 50V 2. 2U	2		C6036	ECUX1C105ZFN	C. CAPACITOR CH 16V	18	1	
C4327	VCEA0JAE470	E. CAPACITOR 6.3V 47U	1		C6041	ECUX1H101JCV	C. CAPACITOR CH 50V	100P	1	
	ECHR1H103JZ		1		C6043	FCUX1H101JCV	C. CAPACITOR CH 50V	100P	1	
-			2	<del></del>			T. CAPACITOR CH6. 3V	22U	1	
			-						2	
		C. CAPACITOR CH 25V 0. 063U	1				C. CAPACITOR CH 16V	0. 10	_	
C4332, 33	VCEA1CAE100	E. CAPACITOR 16V 10U	2		C7301	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
C4334	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C7302	VCEA0JAW101	E. CAPACITOR 6.3V	1000	1	
C4335, 36	VCEA1HAE2R2	E. CAPACITOR 50V 2. 2U	2		C7303	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	1	
	ECEA1CKA100		1		C7304	VCEA0JAW101	E. CAPACITOR 6.3V	1000	1	1
			1				C. CAPACITOR CH 50V	47P	1	
	ECEAOJKA101		H.						1	
		C. CAPACITOR CH 50V 0.1U	1			ECEA1HKA2R2		2. 20		
C4340, 41	VCEA1HAE2R2	E, CAPACITOR 50V 2. 2U	2				M. RESISTOR CH 1/16W	0	1	
C4342-44	VCEA1CAE100	E. CAPACITOR 16V 10U	3		C7312, 13	ECUM1 C1 04ZFN	C. CAPACITOR CH 16V	0. 10	2	
C4345, 46	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2		C7315	ECUX1E104KBN	C. CAPACITOR CH 25V	0. 1U	- 1	
	ECEA1CKA100		2		C7316	ECUM1C104ZEN	C. CAPACITOR CH 16V	0. 1U	1	
			-			VCEA1CAW100		1 OU	1	
			<del>                                     </del>			VCEA0JAW470		47U	1	<del> </del>
<b>I</b>	VCEA1CAE100		'						_	
		C. CAPACITOR CH 50V 0.1U	1			VCEA1CAW100		100	2	
C4352	ECEA1CKA101	E. CAPACITOR 16V 100U	1		C7321	ECUM1C104ZFN	C, CAPACITOR CH 16V	0.10	1	
C4353	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1		C7322, 23	ECUX 1H1 03KBV	C. CAPACITOR CH 50V	0. 01U	2	
	ECEA1HKA010		1		Ç7324-26	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 1U	3	
		C. CAPACITOR CH 50V 0.1U	-				C. CAPACITOR CH 16V		-	
		C. CAPACITOR CH 16V 0.1U					C. CAPACITOR CH 16V C		-	
			-					12P	1	
		C. CAPACITOR CH 50V 0.1U	-				C. CAPACITOR CH 50V		-	
		C. CAPACITOR CH 16V 0.1U					C. CAPACITOR CH 50V	39P	-	
C4359	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	_ 1		C7601	ECUM1H103ZFN	C. CAPACITOR CH 50V		-	
C4360	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1		C7602	ECEA0JKA101	E. CAPACITOR 6.3V	100U	1	
		C. CAPACITOR CH 50V 0.1U			C7604	ECEA0JKA101	E. CAPACITOR 6.3V	100U	1	
		C. CAPACITOR CH 16V 0.1U	-				C. CAPACITOR CH 50V	0. 1U		
			-		-		·	100	1	
C4364		C. CAPACITOR CH 50V 0.1U				ECEA1HKA100			-	
C4365, 66	ECEA1CKA100						E. CAPACITOR 6.3V	1000	1	
C4367	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1				C. CAPACITOR CH 50V	0. 1U	1	
C4368	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C7614	ECEA1HKA010	E. CAPACITOR 50V	10	1	
C4371		C. CAPACITOR CH 50V 33P	<del> </del>	1	C7615, 16	ECUM1H330JCN	C. CAPACITOR CH 50V	33P	2	:
C4372		C. CAPACITOR CH 50V 0.1U	t -			ECEA1CKA100		100	1	
							C. CAPACITOR CH 50V	0. 10	2	!
		C. CAPACITOR CH 50V 33P							-	<del>                                     </del>
C4377	ECEA1CKA100						E. CAPACITOR 16V	100	<u> </u>	<del>                                     </del>
C4378	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C7909		C. CAPACITOR CH 50V	0. 1U	1	
C4379-81	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	3		C7910	ECEAOJKS470	E. CAPACITOR 6. 3V	47U	1	
		C. CAPACITOR CH 50V 33P	1	<del></del>	C7911	ECUM1H104ZFN	C. CAPACITOR CH 50V	0. 1U	1	
		C. CAPACITOR CH 16V 0. 039U	2		030001.02	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 1U	2	:
							C. CAPACITOR CH 50V		1	
			-						<u> </u>	
		T. CAPACITOR CH6. 3V 10U	-	<u> </u>			C. CAPACITOR CH 16V	0. 10	2	
C4506	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1		C30006		*****	0. 015U	1	
C4515	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1		C30007	ECUM1H471JCN	C. CAPACITOR CH 50V	470P	1	
									L	
<b>——</b>	<del></del>		<del> </del>						Γ	
		L	_				<del>1</del>		_	

Ref. No.	Part No.	Part Name & Descriptio	<b>.</b>	Remarks	Ref. No.	Part No.	Part Name & Description	7	Pamania-
		· · · · · · · · · · · · · · · · · · ·	IF C	Remarks	( <del>                                    </del>	-		_	
C30008		C. CAPACITOR CH 50V 3300P	1		C30100	EEVHB0J101	E. CAPACITOR 6. 3V 100	+	1
C30009	ECUM1H103ZFN	C. CAPACITOR CH 50V 0, 01U	1		C30101	ECUM1C104ZFI	C. CAPACITOR CH 16V 0.1	_إ د	1
C30010	EEVHB0J101	E. CAPACITOR 6.3V 100U	1	1	C30102	ECUM1H101JC	C. CAPACITOR CH 50V 100	,	1
C30011	EEVHB1H3R3	E. CAPACITOR 50V 3.3U	1		C30103	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.11	il -	1
G30012 1	+	E. CAPACITOR 16V 10U	2		C30104		C. CAPACITOR CH 50V 27		<u>-</u>
C30014		<del>                                     </del>			l			-	
		E. CAPACITOR 50V 4, 7U			C30105	1	C. CAPACITOR CH 50V 20F	-	1
C30015	+	C. CAPACITOR CH 50V 0.01U	1		C30106	+	C. CAPACITOR CH 50V 0.1L	1	1
C30016	ECUM1H471JCN	C. CAPACITOR CH 50V 470P	1		C30107	EEVHB0J101	E. CAPACITOR 6.3V 100L	۱	1
C30018	EEVHB1C100	E. CAPACITOR 16V 10U	1		C30108	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1L	ī	1
C30019	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C30109	ECUM1H102KBN	C. CAPACITOR CH 50V 1000F	,	1
C30020	·	E. CAPACITOR 6.3V 100U	٠,		C30110			-	<u>'</u>
		<del></del>	<u> </u>			<del></del>	·	- -	1
C30021		E. CAPACITOR 6.3V 47U	1		C30111	EEVHB0J470	E. CAPACITOR 6. 3V 47L	1	1
C30022	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C30113	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1L	1	1
C30023	ECUM1 C1 04ZFN	C. CAPACITOR CH 16V 0.1U	1		C30114	EEVHP1H1R0	E. CAPACITOR 50V 1L		1
C30024	EEVHB0J470	E. CAPACITOR 6.3V 47U	1		C30116		C. CAPACITOR CH 50V 0, 01L	+	1
C30025	<del>                                     </del>	C. CAPACITOR CH 16V 0.1U	1		l	1		+	3
			_			9 EEVHB1E4R7	E. CAPACITOR 25V 4. 7L	-	
C30026	+	C. CAPACITOR CH 50V 22P	1		C30120	ECUM1H121JCN	C. CAPACITOR CH 50V 120F	`	1
C30027	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C30122	EEVHB0J470	E. CAPACITOR 6.3V 47L	Ш	1] [
030028	EEVHB0J220	E. CAPACITOR 6.3V 22U	1		C30123	EEVHB0J220	E. CAPACITOR 6. 3V 22L	П	11
C30029. 30	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	2		C30124		C. CAPACITOR CH 16V 0.1L	+	<del>                                     </del>
		C. CAPACITOR CH 50V 22P	2		C30125	<del> </del>	C. CAPACITOR CH 50V 270F	+	1
			1	***************************************			· <del> </del>		·
030033		C. CAPACITOR CH 50V 56P			C30126	<del></del>	C. CAPACITOR CH 50V 0.1L		·
C30034	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C30127	ECUX1H120JCV	C. CAPACITOR CH 50V 12P	1	
C30035	EEVHB0J220	E. CAPACITOR 6.3V 22U	1		C30128	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	Г	
C30036	EEVHB0J101	E. CAPACITOR 6.3V 100U	1		C30130	EEVHB1H1R0	E. CAPACITOR 50V 1U	+	
C30037		C. CAPACITOR CH 16V 0.1U	Ť		C30131		C. CAPACITOR CH 50V 0.01U		
			Ļ					+-	
		· · · · · · · · · · · · · · · · · · ·	-3		C30132	EEVHB0J470	E. CAPACITOR 6.3V 47U	-	
C30041		C. CAPACITOR CH 50V 0. 01U	1		C30133	+	C. CAPACITOR CH 50V 0.1U	+	
C30042	ECUX1H181JCV	C. CAPACITOR CH 50V 180P	1		C30134	EEVHB0J220	E. CAPACITOR 6. 3V 22U		<u>                                     </u>
C30043	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1	-	030135	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	Τ.	
C30044	ECUM1H121JCN	C. CAPACITOR CH 50V 120P	1		C30136	ECUM1H103ZEN	C. CAPACITOR CH 50V 0. 01U	Τ.	1
G30045 46	<del></del>	E. CAPACITOR 16V 10U	2		C30137	·	E. CAPACITOR 50V 1U	+	
		C. CAPACITOR CH 16V 0.1U	2			<del> </del>		+-	
			_		C30138	EEVHP1H1R0	E. CAPACITOR 50V 1U	+-	
		C. CAPACITOR CH 50V 0. 01U	_1	-		<u> </u>	C. CAPACITOR CH 16V 0.1U	-	3
		E. CAPACITOR 50V 47U	1		C30142	ECUX1H390JCV	C. CAPACITOR CH 50V 39P	Ŀ	
C30051	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1		C30143	ECUM1H390JCN	C. CAPACITOR CH 50V 39P	.	
C30052	EEVHB1C100	E. CAPACITOR 16V 10U	1		C30145	EEVHB0J101	E. CAPACITOR 6.3V 100U		
C30053, 54	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	2		C30146	EEVHB0J470	E. CAPACITOR 6. 3V 47U	1	
C30055	_	E. CAPACITOR 6. 3V 22U	1				C. CAPACITOR CH 50V 0.1U		,
C30056		E. CAPACITOR 16V 10U	1		<b>I</b>	<del>                                     </del>		+-	
			_		C30149	EEVHP1A100	E. CAPACITOR 10V 10U	-	
C30057		C. CAPACITOR CH 50V 560P	1		C30150		C. CAPACITOR CH 16V 0.1U	_1	
C30058		C. CAPACITOR CH 50V 390P	1		C30151	EEVHP1A100	E, CAPACITOR 10V 10U	1	
C30059	EEVHB0J470	E. CAPACITOR 6. 3V 47U	1		C30152	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1	
C30060	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C30155	ECUM1H820JCN	C. CAPACITOR CH 50V 82P	1	
C30061	ECUX1H560JCV	C. CAPACITOR CH 50V 56P	1		C30156	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
C30063	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1		C30157		C. CAPACITOR CH 16V 0.1U	1	
C30064		E. CAPACITOR 50V 4. 7U	1		C30159			<del>1</del> –	
C30065			-1					1	
					C30160		C. CAPACITOR CH 50V 39P	Ľ	
		C. CAPACITOR CH 50V 0.01U	_1		C30161, 62	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	
C30067	ECUMTH101JCN	C. CAPACITOR CH 50V 100P	1		C30165	EEVHB0J470	E. CAPACITOR 6. 3V 47U	1	
C30068	EEVHBOJ101	E. CAPACITOR 6.3V 100U	1		C30186	ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 1U	1	
C30069		C. CAPACITOR CH 10V 1U	1		C30187		C. CAPACITOR CH 50V 220P	T i	
		C. CAPACITOR CH 50V 27P	1		C30188	-		+-!	
			-					⊢'	<del> </del>
			1		C30189		C. CAPACITOR CH 50V 180P	1	
		E. CAPACITOR 6.3V 47U	1		C30190	ECUM1H12OJCN	C. CAPACITOR CH 50V 12P	1	
		C. CAPACITOR CH 50V 0. 01U	1		L				
C30075	ECUM1H12OJCN	C. CAPACITOR CH 50V 12P	1		D1001	MA165	DIODE	1	
		E. CAPACITOR 50V 1U	1		D1002		DIODE	1	
		C. CAPACITOR CH 50V 560P	1					-	
					D1003		DIODE	1	
-		C. CAPACITOR CH 50V 560P	1		D1004		DIODE	1	
		E. CAPACITOR 50V 3.3U	_1		D1005	MA165	DIODE	1	
C30080	EGUX1H392KBN	C. CAPACITOR CH 50V 3900P	1		D1008, 09	MA165	DIODE	2	
C30081	EEVHB0J101	E. CAPACITOR 6, 3V 100U	1		D1010	11ES1 .	DIODE	1	
C30083	EEVHB1C100	E. CAPACITOR 16V 10U	1		D1011		DIODE	1	
		E. CAPACITOR 6.3V 100U	1				DIODE	1	
		C. CAPACITOR CH 50V 0, 01U	1		· .				-
			$\rightarrow$		1		DIODE	1	
		C. CAPACITOR CH 50V 0. 01U	1		<u> </u>		DIODE	1	
		C. CAPACITOR CH 50V 220P	1				DIODE	1	
		C. CAPACITOR CH 50V 220P	1		D1021	MA4200M	DIODE	1	
C30089, 9C	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2		D1022	MA4051~M	DIODE	1	
		E. CAPACITOR 50V 2. 2U	1		D1023, 24		DIODE	2	
		C. CAPACITOR CH 16V 0, 1U	1		D1025		DIODE	1	
		C. CAPACITOR CH 50V 8P	2						
			-		D1026		DIODE	1	
		C. CAPACITOR CH 16V 0.1U	4				DIODE	2	
C30099	ECUMI HI O4ZFN	C. CAPACITOR CH 50V 0.1U	1		D2001	MA728	DIODE	1	
								L	
			_					_	

									T
Ref. No.	Part No.	Part Name & Description	ca	Remarks	Ref. No.	Part No.	Part Name & Description	Pc:	Remarks
		DIODE	3		102210	PST7028-T	IC	1	
			9		102211-13		IC		
D2006-14		DIODE	$\overline{}$				IC		
D2201, 02		DIODE	2		102214	TC7W08F		1	
D2203-05		DIODE	3		102215	TC7SH32F	IC .		
D2206	MA720	DIODE	1		102216	TC7S08F	iC	1	
D2207	MA723	DIODE	_1	4	1C2502	TL1453CNS	10	1	
D2208	MA165	DIODE	1		I C3001	T9P90EF	IC	1	
D2209	MA720	DIODE	1	i i	103002	MN47V07AF	1C	1	
D2210	MA165	DIODE	1		103003	MN67373	IC	1	
D2211		DIODE	1		103004	M52387FP	IC	1	
		DIODE	1		103005	BH7086KV	10	1	
D2501			1		103006	M52684AFP	IC	1	-
D2503		DIODE			<del></del>	TC7SH00FU	IC	1	
D2505		DIODE	1		103007			<del>-</del>	
D2507		DIODE	1		103008		IC	- !	
D3002	MA728	DIODE	1		103009	TC7SH08FU	IC	1	
D3003	MA151K	DIODE	1		103010	RN5RZ30BA	IC	_1	
D3201	MA142WA	DIODE	1		103201	M65500FP	IC	_1	
D3601	MA721WK	DIODE	1		103202	UPD42S4260B8	IC	-1	
D3602		DIODE	1		103203	AN3741FAP-AV		1	
			1		103204	AD9057BRS	IC	1	
D3603		DIODE	1		103205	TC7SH08FU	10	1	.,
D3604		DIODE	$\rightarrow$			M62370GP	IC	1	<del> </del>
D3901-03		DIODE	3		103207			1	
D3904, 05		DIODE	2		103601	UPD4053BG	10		
D3906	MA165	DIODE	1		103602	AN3581S	10	1	
D4002, 03	MA165	DIODE	2		103603	AN3296S	IC_	1	
D4301	MA151K	DIODE	1		103701	TSB13LV11PBW	IC	1	
D4302	MA153	DIODE	1	*****	103901	MC14053BF	IC	1	
D4501	MA721	DIODE	1		103902	MC14052BF	IC	1	
D4701	MA720	DIODE	1		103903	MC14051BF	IC	1	
			1		103904	PQ20VB2E	IC	1	
D4702	MA151WK	DIODE	$\rightarrow$				IC	2	
	188355	DIODE	4			UPD4051BG		1	
D6007, 08	188355	DIODE	2		104003	BU4053BCF	10	_	
D7302	BB135	DIODE	1		104004	NJM4558M	IC	1	
D7601	MA4300	DIODE	-1		IG4201	NJM2112V	10	1	
D7602, 03	MA165	DIODE	2		104210	NJM2115V	10	1	
D7653	MA723	DIODE	1		104301	NJM79L05A	IC	1	
D30001		DIODE	1	• • • • • • • • • • • • • • • • • • • •	104302	NJM4558M	IC	1	
D30002		DIODE	1		104303	UPC78L05J	IC	1	
D30002		DIODE	1		ļ	NJM4558M	IC	2	
1			1		104304.00	M62409FP	IC	1	
D30004		DIODE					10	<u>'</u>	
D30005		DIODE	1		104307	NJM4558M		1	
D30006	MA8033-L	DIODE	1		1C4308	M62409FP	10	-	
D30007	MA142K	DIODE	1		104309	BU4052BCF	10	1	
D30008	MA151K	DIODE	1		104310, 11	NJM4558M	IC	_2	2
D30009	MA721	DIODE	1	j	104312	NJM4565DD	10	1	
D30010	MA151K	DIODE	1		104313, 14	BU4052BCF	IC	_2	?
		~			104315	NJM4558M	IC	1	
FL7301	VLF0633	FILTER	1		IC4316	HA17431PA	10	1	
		FILTER	1		104501	AK4520A-VF	IC	1	
			<u> </u>		I C4701	D78011FGC564		1	
	<b></b>	FILTER	1		104701	PST591D	10	1	d
FL30002	VLF1367	FILTER	- 1		1		10	-	
L	ļ		_		104901	MC14052BF		H.	
FP3201	VJS3251	CONNECTOR (FEMALE)	1		1 06001	M31020VLEC	IC	1	
					106002	RN5VD29EA	IC	1	
I C0701	LA7576	10	1		106003	MC14013BF	IC	_1	
I C1 001	UPC1093J	10	1	78474	106004	TC7W74FU	10	1	
101003	NJM4565MD	10	1		106005	TC7S86FU	IC	1	
IC1004	NJM2904M	10	1		106006	TC75W54FU	10	1	
IC1005	RN5RG22AA	IC	1		107301	TDA9874H	IC	1	
	NJM4565MD	10	2	2. J. 1678	107302	PST7043	IC	1	
101008	RN5RZ50BA	10	<del>-</del> 1		I C7651	RN5RZ50BA	IC	1	
IC1009	PQ20VB2E	IC	1		107905	PST7043	10	1	
	ł — — — — — — — — — — — — — — — — — — —	IC	<del>-</del>		107906	M34510W2CRE2	<del></del>	1	
102001	M31020VLED						10	H	
102002	UPD4721GS	IC			1030001	MC14053BF		1	
1C2004	S29L331AFS	10	1		1030002	NJM2903M	10	_	
102005	D784037GK508		1		1030003	TCHC4538AF	10	1	
102006	MM1320ENRE	10	1		1030004	AN3916	10	-	1
102201	S80743AL	IC	1		1030005	TCHC4538AF	IC	_1	
102202	BU4052BCF	IC	1		I C30006	NJM2255D	10		1
102203	M37777VACX	10	1		1030007	MC14053BF	10	1	1
102203	M6M80041P	IC	1		1030008	TC9090AF	10	1	1
102204	M38027V4EM	10	1		1030009	MM1 093PFB	IC	-	
			1		1030009	MB90089WVAS	10		
102206	TCHC4538AF	10	_		<del></del>		10		
	M66010GP	10	2		1030011	MM1108XFF		-	`
102209	S80743AL	IC	1		1030012	M24C16-WBN6	IC	H	1
						ļ		⊢	
					L		l	L	

			_						
Ref. No.	Part No.	Part Name & Descriptio	PA.	Remarks	Ref. No.	Part No.	Part Name & Description	Pa	Pamania
1030013	SABC161RIL16		1	Remarks		<del></del>	· · · · · · · · · · · · · · · · · · ·		
	<del>                                     </del>		-	·	L30032	VLQ0163J101	COIL 100UH	Ľ	1
1030014	S80743AL	IC .	1					┸	
1030015	M27C2O01FBBA	IC	1		LB0601-03	VLP0145	COIL	1:	3
I C30016	SDA5273-20S	10	1		LB2002-04	VLP0364	COIL	:	3
I C30017	M52390FP	10	1		LB2201	VLP0085	COIL	1	1
1030018	NJM2513M	IC	1		LB2202	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	١,	1
IC30019	MC14053BF	IC	1		LB2203-06	VLP0085	COIL	-	4
			Ė		LB2501, 02	1	COIL	1	
A IB1001-00	V2E001 EAGE	LC BROTECTOR	<u> </u>		<b>-</b>			-	
⚠ IP1001-09	<del> </del>	IC PROTECTOR	9		LB3001, 02		CHIP INDUCTOR	2	
<u> </u>	VSF0015A025	IC PROTECTOR	1		LB3004	VLP0364	CHIP INDUCTOR	1	
<u> </u>	VSF0015A025	IC PROTECTOR	1		LB3006	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
					LB3701-04	VLP0364	CHIP INDUCTOR	4	1
JK0602	VJJ0242	REMOTE CONTROL JACK	1		LB4901-08	VLP0147	COIL	٤	3
JK0603	VJJ0577	JACK	1		LB6004	VLP0364	CHIP INDUCTOR	1	
JK3901, 02	VJS1470	CONNECTOR (FEMALE)	2		LB7301-04	VLP0150	COIL	1	
			Ť	-	LB7601	VLP0125	COIL	1	
K0702	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	<del> </del>		<del>                                     </del>	<del></del>	-	· <del> </del> · · · · · · · · · · · · · · · · · · ·
			_			ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	-	
		M. RESISTOR CH 1/16W 0	3		LB30006, 07	VLP0196	COIL	2	
K2001		M. RESISTOR CH 1/16W 0	1			ERJ6GEY0R00		16	
		M. RESISTOR CH 1/10W 0	2		LB30024	VLP0147	COIL	1	
K3903	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	_1		LB30025-28	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
K7301, 02	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	2		LB30029-36	VLP0147	COIL	8	3
K7304		M. RESISTOR CH 1/10W 0	1			1		f	<u> </u>
K7904		M. RESISTOR CH 1/10W 0	-		P1102	VJS1239T	CONNECTOR (FEMALE)	1	
K7909-11		M. RESISTOR CH 1/10W 0	3				<del></del>	-	
			_		P2502	VJP1931T	CONNECTOR (MALE)	1	<del>                                     </del>
K30006	·	M. RESISTOR CH 1/16W 0	1		P3701	VJP1229T	CONNECTOR (MALE)	1	
K30010	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1		P3701	VJP3125B006	CONNECTOR (MALE) 6P	1	
			$oldsymbol{ol}}}}}}}}}}}}}}}}}$		P3901	VJP1242T	CONNECTOR (MALE)	1	
L0701	VLQ0163JR12	COIL 0. 12UH	1		P4001	VJS3537A020G	CONNECTOR (FEMALE)	1	
L0705	VLQ0163J5R6	COIL 5. 6UH	1		P6201	VJP1231T	CONNECTOR (MALE) 4P	1	
L0706	VLQEL05S150K	COIL	1		P6401	VJS3537A022	CONNECTOR (FEMALE)	1	
	ELEKN390KA	COIL 39UH	1		P6701	VJS3537A032	CONNECTOR (FEMALE)	+	
		COIL 10UH	2					<u> </u>	
			-		P6703	VJS3537A026	CONNECTOR (FEMALE)	'	
	VLQ0614K331	COIL 330UH	4		P6707	VJP1239T	CONNECTOR (MALE)	1	17771777177
	ELJPA100KF	COIL 10UH	4		P6707	VJS1239T	CONNECTOR (FEMALE)	1	
L3005	VLQ0426J150	COIL 15UH	1		P7901	VJS3537A019	CONNECTOR (FEMALE)	1	1
L3006-08	ELJPA100KF	COIL 10UH	3		P7902	VJS3537A017	CONNECTOR (FEMALE)	1	
L3009	VLQ0426J120	COIL 12UH	1						
L3010	VLQ0426J150	COIL 15UH	1		PK0701	VJR0816E010W	CONNECTOR	1	
	ELJPA100KF	COIL 10UH	2		PK7301	VJR0777B007W		1	
	ELJPA100KF	COIL 10UH	2		PK7302	VJR0777B006W		1	
					FK/302	VURU111BUU0#	rin	_	
	ELJPA220KB	COIL 22UH	1						
	ELJPA100KF	COIL 10UH	1		PP0701		CONNECTOR (MALE)	1	
L3601	VLQ0599J680	COIL 68UH	1		PP3401	VJP3573E012	CONNECTOR (MALE)	1	1
L3602	VLQ0599J330	COIL 33UH	1	1	PP3402, 03	VJP3573E020	CONNECTOR (MALE)	2	
L3603	VLQ0599J680	COIL 68UH	1		PP3404	VJP3573E008	CONNECTOR (MALE)	1	
L3604	VLQ0599J330	COIL 33UH	1		PP3501 02	VJP3573E020	CONNECTOR (MALE)	2	
		COIL	1		PP3503		CONNECTOR (MALE)	1	
			2				CONNECTOR (MALE)		
	VL00599J680	COIL 6. BUH	1		<del> </del>	VJP3994		1	<del> </del>
			_		PP3901		CONNECTOR (MALE)	1	
		COIL 10UH	2				CONNECTOR (MALE)	2	<u> </u>
		COIL 10UH	2		PP6706	VJP3042A020W	CONNECTOR (MALE)	1	
L7301	VLQ0599J3R3	CO1L 3. 3UH	_1						
L7302	VLQ0599J1R0	COIL 1UH	_1		PS0601	VJS3042F009W	CONNECTOR (FEMALE)	1	
L7601	VLQ0599J330	COIL 33UH	11		PS2501	VJS3042F020W	CONNECTOR (FEMALE)	1	
		COIL 2. 7UH	1		PS3001	VJS3994	CONNECTOR (FEMALE)	1	
		COIL 33UH	1		PS3002		CONNECTOR (MALE)	1	
		COIL 10UH	1		PS3901		CONNECTOR (FEMALE)		
			-	<del></del>					
		COIL 33UH	3	- "			CONNECTOR (FEMALE)	2	
		COIL 56UH	1	***			CONNECTOR (FEMALE)	_1	
		COIL 22UH	1				CONNECTOR (FEMALE)	_2	
		COIL 33UH	4		PS30001, 02	VJS3573F020	CONNECTOR (FEMALE)	2	
L30010-14	ELJPA330KF	COIL 33UH	5		PS30003	VJS3573F012	CONNECTOR (FEMALE)	1	
L30015	VLQ0163J220	COIL 22UH	1				···		
		COIL 22UH	1		Q0701	MSD601-S	TRANSISTOR	1	
		COIL 33UH	3		Q0702	MSB709-R	TRANSISTOR		<u> </u>
			$\rightarrow$					1	<del></del>
		COIL 15UH	1			2SD1996	TRANSISTOR	5	
L30022, 23		COIL 33UH	2		Q1008	2SB956	TRANSISTOR	1	
		COIL 10UH	_1		Q1009	2SB948A	TRANSISTOR	1	
L30025	ELJPA330KF	COIL 33UH	1		Q1010-12	2SD1996	TRANSISTOR	3	
L30026	VLQ0163J100	COIL 10UH	1	7	Q1017		TRANSISTOR	1	· · · · · · · · · · · · · · · · · · ·
		COIL 5. 6UH	1		Q1018	2SD1996	TRANSISTOR	1	
		COIL 33UH	2		Q1020	2SD601A-R	TRANSISTOR	1	
		COIL 15UH	$\rightarrow$						
			1			2SD602A-R	TRANSISTOR	1	
L30031	VLQ0163J8R2	COIL 8. 2UH	-1		01024	2SB710	TRANSISTOR	1	
			_						

								_	· · · · · · · · · · · · · · · · · · ·
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks Re	ef. No.	Part No.	Part Name & Description	Рс	s Remarks
Q1025-27		TRANSISTOR	3		1003	UN221F	TRANSISTOR-RESISTOR	1	
01028, 29		TRANSISTOR	2				TRANSISTOR-RESISTOR	1	
			1				TRANSISTOR-RESISTOR	1	
	2SD601A-R	TRANSISTOR	- 1				TRANSISTOR-RESISTOR	1	
	2SD601A-R	TRANSISTOR	8					1	
Q2501	2SB1073	TRANSISTOR	1				TRANSISTOR-RESISTOR		<u> </u>
02506, 07		TRANSISTOR	2				TRANSISTOR-RESISTOR	1	
Q2509	2SB1073	TRANSISTOR	1	QR	2001		TRANSISTOR-RESISTOR	1	
Q3001	2SD1819	TRANSISTOR	1	QR	2002, 03	UN5213	TRANSISTOR-RESISTOR	_2	
Q3002	2SB1218	TRANSISTOR	1	QR:	R2201-06	MUN2213	TRANSISTOR-RESISTOR	6	3
03003	2SD1819A	TRANSISTOR	1	QR:	2207, 08	MUN2212	TRANSISTOR-RESISTOR	2	?
03004, 05	2501819	TRANSISTOR	2	QR	2209-11	MUN2211	TRANSISTOR-RESISTOR	3	3
Q3006	2803930	TRANSISTOR		QR	2212	MUN2213	TRANSISTOR-RESISTOR	1	
03007, 08		TRANSISTOR	2	OP:			TRANSISTOR-RESISTOR	1	
			1				TRANSISTOR-RESISTOR	1	
Q3201	2SB1218A-R	TRANSISTOR						_;	· · · · · · · · · · · · · · · · · · ·
Q3601	2SD601A-R	TRANSISTOR	1				TRANSISTOR-RESISTOR	.3	
Q3602	MSB709-R	TRANSISTOR	_1		2216-18		TRANSISTOR-RESISTOR		
Q3901	2SD1328	TRANSISTOR	_1	QR	2220-22		TRANSISTOR-RESISTOR	_3	3
03902	2SB709A	TRANSISTOR	1	QR	2503	UN2215	TRANSISTOR-RESISTOR	1	
03903, 04	2SD601A	TRANSISTOR	2	QR	2508	UN2115	TRANSISTOR-RESISTOR	_1	
Q3905	2SB709A	TRANSISTOR	1	QR:	3601-03	MUN2213	TRANSISTOR-RESISTOR	3	B
Q3907-09		TRANSISTOR	3		3604. 05		TRANSITOR-RESISTOR	2	2
	2SK170BL	TRANSISTOR	1	OR	3606		TRANSISTOR-RESISTOR	1	
	2SB709	TRANSISTOR	1				TRANSISTOR-RESISTOR	1	
			-;				TRANSISTOR-RESISTOR	1	
	2SD1992	TRANSISTOR	-;				TRANSISTOR-RESISTOR		
	2SD601A-R	TRANSISTOR	1	}				1	
	2SB1320A	TRANSISTOR	1				TRANSISTOR-RESISTOR		
	2SD1468T93	TRANSISTOR	1				TRANSISTOR-RESISTOR	1	
Q4302	MSB709-R	TRANSISTOR	1	QR	R4302	MUN2212	TRANSISTOR-RESISTOR	_1	
Q4303-10	2SD601A	TRANSISTOR	8	QR	R4303	MUN2213	TRANSISTOR-RESISTOR	1	
Q4311, 12	XN4501	TRANSISTOR-RESISTOR	2	QR	₹4701-03	MUN2213	TRANSISTOR-RESISTOR	3	3
Q4313-15	2SD601A	TRANSISTOR	3	QR	R4704	MUN2211	TRANSISTOR-RESISTOR	1	
	2SD601A-R	TRANSISTOR	2	QR	R4706	MUN2112	TRANSISTOR-RESISTOR	1	
Q6001	2SB970X	TRANSISTOR	1				TRANSISTOR-RESISTOR	1	
Q7601	2SD601A-R	TRANSISTOR	1				TRANSISTOR-RESISTOR	1	
			2				TRANSISTOR-RESISTOR	1	
	2SD1328-S	TRANSISTOR	-					_	
Q7606	2SB709A	TRANSISTOR	1				TRANSITOR-RESISTOR	_'	
Q30001	MSD601-R	TRANSISTOR	1				TRANSISTOR	1	
030002	MSB709-R	TRANSISTOR	1	QR			TRANSISTOR-RESISTOR	1	-
030003, 04	2SB1218	TRANSISTOR	2	QR	R30006	MUN2111	TRANSISTOR-RESISTOR	_1	
030005, 06	2803930	TRANSISTOR	2						
Q30007, 08	MSB709-R	TRANSISTOR	2	RO	703	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	_1	
Q30009	2803930	TRANSISTOR	1	RO	704	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
Q30010	MSC2295-B	TRANSISTOR	1	RO	705	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
Q30011	2SB1218	TRANSISTOR	1	RO.	0706, 07	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	2	
Q30011	MSC2295-B	TRANSISTOR					M. RESISTOR CH 1/16W 1.5K	1	1
	-		2				M. RESISTOR CH 1/16W 1M	1	
030013, 14		TRANSISTOR	2					-	
Q30015	2SD1819	TRANSISTOR	_1				M. RESISTOR CH 1/10W 150K	_'	
Q30016	MSB709-R	TRANSISTOR	_1				M, RESISTOR CH 1/16W 470		
Q30017	2SD1819	TRANSISTOR	1	RO			M. RESISTOR CH 1/16W 47	_	1
Q30018	MSB709-R	TRANSISTOR	1				M. RESISTOR CH 1/16W 4.3K	1	
Q30019	2SD1819	TRANSISTOR	1	RO	0716	VRE0040E151	M. RESISTOR CH 1/10W 150	1	
Q30020	2SB1218	TRANSISTOR	1	RO	0717	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	
030021, 22		TRANSISTOR	2	RO	0718	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
030023	2SB1218	TRANSISTOR	1				M. RESISTOR CH 1/10W 7.5K	1	
030024-27		TRANSISTOR	4				M. RESISTOR OH 1/16W 1K	1	
Q30028	MSB709-R	TRANSISTOR	1				M. RESISTOR CH 1/16W 100	1	
ļ	MSD601-R	TRANSISTOR	1				M. RESISTOR CH 1/16W 270	1	
030030							M. RESISTOR CH 1/16W 18K	1	
030031, 32		TRANSISTOR	2					_	
Q30033	2SD1819	TRANSISTOR	1				M. RESISTOR CH 1/16W 1.8K		
Q30034, 35		TRANSISTOR	2				M. RESISTOR CH 1/16W 560		
Q30036	2SD1819	TRANSISTOR	1				M. RESISTOR CH 1/16W 1.3K	_	
Q30037	MSB709-R	TRANSISTOR	1	RO			M. RESISTOR CH 1/16W 470		
030038	2SD1819	TRANSISTOR	1	RO	0729	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	_1	<b>I</b>
Q30039	2SB1218	TRANSISTOR	1	RO	0732	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	1
930040	2SD1819	TRANSISTOR	1	<del></del>			M. RESISTOR CH 1/16W 39K	1	1
Q30042	2SD1819	TRANSISTOR	1				C. RESISTOR 1/4W 1.8K	1	
Q30042 Q30043	2SB1218	TRANSISTOR	1				C. RESISTOR 1/4W 1.2K	-	1
	1						C. RESISTOR 1/4W 470	-	
030044	MSD601-R	TRANSISTOR	1					_	2
Q30045	2SB1218	TRANSISTOR	1				M. REISITOR CH 1/10W 6.8K		
Q30046	MSD601-R	TRANSISTOR	1				M. RESISTOR CH 1/10W 10K	-	
Q30047	MSB709-R	TRANSISTOR	_1				M. RESISTOR CH 1/10W 4.7K	_ 1	
Q30048	2SD1819	TRANSISTOR	1	R1			M. RESISTOR CH 1/10W 47K	L	
Q30049	2SB1218	TRANSISTOR	1	R1	1012	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	Ŀ	1
			Г	R1	1013, 14	ERDS2TJ821	C. RESISTOR 1/4W 820	Ĺ	2
QR1001	MUN2213	TRANSISTOR-RESISTOR	1	R1	1015	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	1
	1		Г	<u> </u>					
			_			<u></u>		_	

	,				Ţ	<del></del>		T			<del></del>
Ref. No.	Part No.	Part Name & Descr	iption	Pc	Remarks	Ref. No.	Part No.	Part Name & Descr	iptior	Pc	Remarks
R1016	ERDS2TJ272	C. RESISTOR 1/4W				R2204-06	<del>                                     </del>	M. RESISTOR CH 1/10W	10K	-	
R1018	ERDS2TJ821	C. RESISTOR 1/4W		1		R2207	ERJ6GEYG222	M. RESISTOR CH 1/10W	2. 2K	-	<del></del>
R1019 R1021	ERDS2TJ272	C. RESISTOR 1/4W		1		R2209	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1	
R1021	ERJ6GEYG272 ERJ6GEYG103	M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W		1		R2211 R2213	ERJ6GEYG222 ERJ6GEYG103	M. RESISTOR CH 1/10W  M. RESISTOR CH 1/10W	2. 2K 10K	1	
R1022	ERJ6GEYG222	M. RESISTOR CH 1/10W		1		R2215	ERJ6GEYG221	M. RESISTOR CH 1/10W	220	1	
R1025		M. RESISTOR CH 1/10W		<del>!</del>				M. RESISTOR CH 1/10W	47K	3	·
R1026		M. RESISTOR CH 1/10W		1				M. RESISTOR CH 1/10W	3. 3K	4	
R1027	ERJ6GEYG272	M. RESISTOR CH 1/10W	2. 7K	1		R2224-26	ERJ6GEYF473	M. RESISTOR CH 1/10W	47K	3	
R1028	ERJ6GEYF822	M. RESISTOR CH 1/10W	8. 2K	1		R2227		M. RESISTOR CH 1/10W	1 OK	1	
R1029	ERJ6GEYG222	M. RESISTOR CH 1/10W		1		R2228		M. RESISTOR CH 1/10W	2. 2K	1	
R1030	<del> </del>	M. RESISTOR CH 1/10W		1		R2229		M. RESISTOR CH 1/10W	10K	1	
R1031	1	M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W		2		R2230 R2231	<del> </del>	M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	2. 2K 47K	1	
R1034		M. RESISTOR CH 1/10W		1		R2232		M. RESISTOR CH 1/10W	10K	<u> </u>	
R1036		M. RESISTOR CH 1/10W		1		R2233		M. RESISTOR CH 1/10W	1 M	1	
R1039	ERDS2TJ562	C. RESISTOR 1/4W	5. 6K	1	11.2	R2234	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1	
R1040	ERDS2TJ821	C. RESISTOR 1/4W	820	1		R2235	ERJ6GEYG681	M. RESISTOR CH 1/10W	680	1	
R1041	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1		R2236	ERJ6GEYJ106	M. RESISTOR CH 1/10W	1 OM	1	
R1042	ERDS2TJ562	C. RESISTOR 1/4W		1		R2237		M. RESISTOR CH 1/10W	220K	1	
R1043	<b>!</b>	C. RESISTOR 1/4W		1		<u> </u>	ERJ6GEYOROO	M. RESISTOR CH 1/10W	0	3	
R1044	ERDS2TJ332	C. RESISTOR 1/4W C. RESISTOR 1/4W	,	2		R2241	ERJ6GEYG562 ERJ6GEYF822	M. RESISTOR CH 1/10W	5. 6K	1	
R1045, 46	1	C. RESISTOR 1/4W M. RESISTOR CH 1/10W	4. 7K	1		R2242 R2243	ERJ6GEYF822 ERJ6GEYG102	M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	8. 2K 1K	1	
		M. RESISTOR CH 1/10W	33K	2		R2244	ERJ6GEYF473	M. RESISTOR CH 1/10W	47K	1	
R1052		M. RESISTOR CH 1/10W		1		R2245	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1	
R2001		M. RESISTOR CH 1/16W	0	1		R2246		M. RESISTOR CH 1/10W	1. 5K	1	
R2002, 03	·	M. RESISTOR CH 1/16W	100K	2		R2247		M. RESISTOR CH 1/10W	2. 2K	1	
		M. RESISTOR CH 1/16W		16		R2248		M. RESISTOR CH 1/10W	18K	1	
		M. RESISTOR CH 1/16W	0	6		R2249		M. RESISTOR CH 1/10W	10K	1	
R2028		M. RESISTOR CH 1/16W		1				M. RESISTOR CH 1/10W	4. 7K	2	
R2029-31 R2032		M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	0 47K	1		R2252-54 R2255		M. RESISTOR CH 1/10W	3. 3K 2. 2K	3	
R2032		M. RESISTOR CH 1/16W	56K	1		-		M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	10K	2	
R2034		M. RESISTOR CH 1/16W	1M	1		R2258		M. RESISTOR CH 1/10W	4. 7K	1	
R2035		M. RESISTOR CH 1/16W	22	1		R2261		M. RESISTOR CH 1/10W	10K	1	
R2036		M. RESISTOR CH 1/16W	47K	1		R2262		M. RESISTOR CH 1/10W	180	1	
R2038	·	M. RESISTOR CH 1/16W	100K	1		R2263	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1	
R2039		M. RESISTOR CH 1/16W	0	1		R2264		M. RESISTOR CH 1/10W	47K	1	
R2040		M. RESISTOR CH 1/16W		_1				M. RESISTOR CH 1/10W	10K		
R2042 R2045		M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	0	1		R2267 R2268		M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	22K	1	
R2043		M. RESISTOR CH 1/16W	1K	1				M. RESISTOR CH 1/10W	100	7	
R2048		M. RESISTOR CH 1/16W	0	1				M. RESISTOR CH 1/10W	33K	5	
R2049		M. RESISTOR CH 1/10W	0	1		R2285		M. RESISTOR CH 1/10W	2. 2K	1	
R2050		M. RESISTOR CH 1/16W	0	1		R2286		M. RESISTOR CH 1/10W	ззк	1	
R2052		M. RESISTOR CH 1/16W	0	1		R2287		M. RESISTOR CH 1/10W	1.5K	1	
	-	M. RESISTOR CH 1/16W	0	6		R2288		M. RESISTOR CH 1/10W	1K	1	
		M. RESISTOR CH 1/16W	100	-				M. RESISTOR CH 1/10W	33K	_	
		M. RESISTOR CH 1/10W	100	2				M. RESISTOR CH 1/10W	1K	1	
R2065 R2068		M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	0	1		R2291		M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	100 1K	1	
R2073		M. RESISTOR CH 1/16W	0	1				M. RESISTOR CH 1/10W	0	2	
R2074		M. RESISTOR CH 1/16W		1		1		M. RESISTOR CH 1/10W		2	
R2076		M. RESISTOR CH 1/16W		1				M. RESISTOR CH 1/10W	2. 7K	1	
R2077	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1		R2302	ERJ6GEYG102	M. RESISTOR CH 1/10W	۱K	1	
R2079		M. RESISTOR CH 1/16W	47K	1				M. RESISTOR CH 1/10W	2. 2K	1	
****		M. RESISTOR CH 1/16W	1 M	1				M. RESISTOR CH 1/10W	10K	1	
		M. RESISTOR CH 1/16W	27K					M. RESISTOR CH 1/10W	2. 7K	1	
		M. RESISTOR CH 3W	18K	1				M. RESISTOR CH 1/10W	1K	7	
		M. RESISTOR CH 3W M. RESISTOR CH 1/16W	33K 8. 2K	1 2	70.1	R2313 R2314		M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	10K 22K	1	
		M. RESISTOR CH 1/16W	100	2		R2314 R2315		M. RESISTOR CH 1/10W	47K	╣	
		M. RESISTOR CH 1/16W	0	1		R2316		M. RESISTOR CH 1/10W	2. 7K	1	
		M. RESISTOR CH 1/16W	100	1				M. RESISTOR CH 1/10W	22K	1	
R2099-02		M. RESISTOR CH 1/16W	100	4				M. RESISTOR CH 1/10W	47K	1	
		M. RESISTOR CH 1/16W	100	3				M. RESISTOR CH 1/10W	2. 2K	1	
		M. RESISTOR CH 1/16W	22K	1				M. RESISTOR CH 1/10W	47K	1	
		M. RESISTOR CH 1/16W	10K	-1				M. RESISTOR CH 1/10W	22K	1	
		M. RESISTOR CH 1/10W	0	1				M. RESISTOR CH 1/10W	10K	1	
		M. RESISTOR CH 1/16W	0 10K	1		R2323		M. RESISTOR CH 1/10W	47K	1	
R2118, 19 R2201		M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	10K	2				M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	10K 47K	1	
R2202		M. RESISTOR CH 1/10W	1.5K	1				M. RESISTOR CH 1/10W	22K	╣	
R2203		M. RESISTOR CH 1/10W		1		R2327		M. RESISTOR CH 1/10W	10K	-	
						[				$\neg$	

Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
		M. RESISTOR CH 1/10W 47K 2	Remarks			M. RESISTOR CH 1/16W 10K	-	Romarko
R2328, 29					-	M. RESISTOR CH 1/16W 100K	1	
R2330		M. RESISTOR CH 1/10W 10K 1		R3072			+	
R2331		M. RESISTOR CH 1/10W 0 1		R3073		M. RESISTOR CH 1/16W 56K	⊢'	
R2504	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K 1		R3074		M. RESISTOR CH 1/16W 0	1	
R2505	ERDS2TJ681	C. RESISTOR 1/4W 680 1		R3075		M. RESISTOR CH 1/16W 100	1	
R2513	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K 1		R3077	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R2514	ERDS2TJ681	C. RESISTOR 1/4W 680 1		R3079	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R2523	ERJ6GEYG331	M. RESISTOR CH 1/10W 330 1		R3080-83	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R2524	ERDS2TJ122	C. RESISTOR 1/4W 1. 2K 1		R3084	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
		M. RESISTOR CH 1/10W 470 3		R3085		M. RESISTOR CH 1/16W 1K	1	
				R3086		M. RESISTOR CH 1/16W 0	1	
R2528		MI, 1120101011 011 11 1011				M. RESISTOR CH 1/16W 10K	1	
		M. RESISTOR CH 1/10W 10K 2		R3088				
R2537		M. RESISTOR CH 1/10W 18K 1				M. RESISTOR CH 1/16W 3.9K	2	
R2538, 39	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K 2		R3091		M. RESISTOR CH 1/16W 2.7K	1	
R2540, 41	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 2		R3092	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R2543	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K 1		R3094	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R2544	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K 1		R3095	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R2545	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K 1		R3097	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R2546		M. RESISTOR CH 1/10W 18K 1		R3098, 99	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	
R2547		M. RESISTOR CH 1/10W 47K 1		R3100		M. RESISTOR CH 1/16W 1.8K	1	
		M. RESISTOR CH 1/10W 10K 1		R3100		M. RESISTOR CH 1/16W 0	H	
R2548						M. RESISTOR CH 1/16W 1K	1	
R2549		M. RESISTOR CH 1/10W 47K 1		R3102			+	
R2550		M. RESISTOR CH 1/10W 100K 1		R3117		M. RESISTOR CH 1/16W 22K	1	
R2551		M. RESISTOR CH 1/10W 18K 1				M. RESISTOR CH 1/16W 1.5K	3	
R2552	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K 1		R3123		M. RESISTOR CH 1/16W 560K	1	
R2553	ERJ6GEYG153	M. RESISTOR CH 1/10W 15K 1		R3128	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	
R2554	ERJ6GEYG331	M. RESISTOR CH 1/10W 330 1		R3129	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1	
R2555	ERDS2TJ122	C. RESISTOR 1/4W 1. 2K 1	12	R3130	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	1	
R2556		M. RESISTOR CH 1/10W 470 1		R3131		M. RESISTOR CH 1/16W 22K	1	(-10.
R3001		M. RESISTOR CH 3W 100K 1		R3132		M. RESISTOR CH 1/16W 680	1	
		M. RESISTOR CH 1/16W 3.3K 1		R3133		M. RESISTOR CH 1/16W 2.7K	1	
R3003				R3133		M. RESISTOR CH 1716W 2.7K	1	
R3004		M. RESISTOR CH 1/16W 0 1					1	
		M. RESISTOR CH 1/16W 10K 2		R3202		M. RESISTOR CH 1/16W 0	-	
R3009	<b>-</b>	M. RESISTOR OH 1/16W 5.6K 1		R3203		M. RESISTOR CH 1/16W 5.6K	1	
R3010	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K 1		R3204	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	
R3011, 12	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 2		R3205	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R3013	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K 1		R3206, 07	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120	2	
R3014	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K 1		R3208	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	
R3016		M. RESISTOR CH 1/16W 100 1		R3209	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	
R3017		M. RESISTOR CH 1/16W 100K 1		R3210	_	M. RESISTOR CH 1/16W 560	1	
R3018	ERJ3GEYG471	M. RESISTOR CH 1/16W 470 1		R3211		M. RESISTOR CH 1/16W 68	1	
				R3212	-	M. RESISTOR CH 1/16W 0	1	
R3019							1	
R3020		M. RESISTOR CH 1/16W 270 1		R3213			Ť	
R3021		M. RESISTOR CH 1/16W 3.3K 1		R3214		M. RESISTOR CH 1/16W 1K	1	
R3022	ERJ3GEYJ121	M. RESISTOR CH 1/16W 120 1		R3215		M. RESISTOR CH 1/10W 0	1	
R3023	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K 1		R3217	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	
R3024	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K 1	1	R3218	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R3026	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K 1		R3219	ERJ3RBD222	M. RESISTOR CH 3W 2.2K	1	
R3027	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 1		R3220	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	
R3028	ERJ3GEYJ183	M. RESISTOR CH 1/16W 18K 1		R3221	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1	
R3034		M. RESISTOR CH 1/16W 8.2K 1		R3222		M. RESISTOR CH 1/16W 220	1	
R3035		M. RESISTOR CH 1/16W 22K 1	-	R3223		M. RESISTOR CH 3W 2.2K	1	
		M. RESISTOR CH 1/16W 8.2K 1		R3224		M. RESISTOR CH 1/16W 10K	1	
R3036				<u> </u>		M. RESISTOR CH 1/16W 3.9K	1	
R3037		METALOTOTOR OF TOTOM EET		R3225			1	
R3038		M. RESISTOR CH 1/16W 0 1		R3226		M. RESISTOR CH 1/16W 220K	÷	
R3039		M. RESISTOR CH 1/16W 1M 1		R3227		M. RESISTOR CH 1/16W 56K	1	
R3041		M. RESISTOR CH 1/16W 270 1		R3228		M. RESISTOR CH 1/16W 3.9K	1	
R3042	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M 1		R3229		M. RESISTOR CH 1/16W 220K	1	
R3043	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K 1		R3230	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	.,,
R3044	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220 1		R3232	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R3046		M. RESISTOR CH 1/16W 220 1		R3233	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	
R3047		M. RESISTOR CH 1/16W 470 1		R3234		M. RESISTOR CH 1/16W 4.7K	1	
		M. RESISTOR CH 1/16W 220 2				M. RESISTOR CH 1/16W 3.9K	3	
				R3238		M. RESISTOR CH 1/16W 100K	1	
				R3239		M. RESISTOR CH 1/16W 10K	1	
R3052							<b>⊢</b> ·	
R3053		M. RESISTOR CH 1/16W 0 1				M. RESISTOR CH 1/16W 3.9K	2	
R3054		M. RESISTOR CH 1/16W 1M 1		R3242		M. RESISTOR CH 1/16W 0	1	
R3057, 58		M. RESISTOR CH 1/16W 10K 2		R3243		M. RESISTOR CH 1/16W 1K	1	
R3059	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0 1		R3245	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	
R3060, 61	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 2		R3248	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3063		M. RESISTOR CH 1/16W 270 1		R3249	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	
R3064		M. RESISTOR CH 1/16W 0 1		R3256	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R3065	-	M. RESISTOR CH 1/16W 1K 1	***************************************	R3257		M. RESISTOR CH 1/16W 120K	1	
R3066	-	M. RESISTOR CH 1/16W 0 1				M. RESISTOR CH 1/16W 1K	9	
		M. RESISTOR OH 1/16W 1K 2		R3267	·	M. RESISTOR CH 1/16W 0	-	
K3U07, 88	ERJ3GEYG102	m. NESTSTON ON 17 TON 11 Z		1020/	ENOUGE FOROU		+	
	<del> </del>			<b></b>			$\vdash$	
L	l			L	l	- · · · <b> · · · ·</b>	1	I

Pof No	Dant No	Part Name & Description	Pac	Remarks	Ref. No.	Part No.	Part Name & Descriptio	PC	s Remarks
Ref. No.	· · · · · · · · · · · · · · · · · · ·		-	Remarks			M. RESISTOR CH 1/10W 2.2K	+	<del></del>
R3268	<del></del>	M. RESISTOR CH 1/16W 47K	-		R3931	ERJ6GEYG222			
R3269-72	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	-				M. RESISTOR CH 1/10W 47K	-	<u> </u>
R3301-07	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	7		R3934	ERJ6GEYG273	M. RESISTOR CH 1/10W 27K	-	
R3308	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R3935	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1	
R3309, 10	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	Į į	R3936, 37	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	2	
R3312	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R4001	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	
R3601	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		R4002-04	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	3	:
R3602		M. RESISTOR CH 1/10W 3.9K	1	***********	R4005		M. RESISTOR CH 1/10W 68K	1	<del> -</del>
	-		2		R4006		M. RESISTOR CH 1/10W 22K	1	
	<del></del>		_					1	
R3605		M. RESISTOR CH 1/10W 10K	1		R4007			<u> </u>	
R3606		M. RESISTOR CH 1/10W 1K	1		R4008		M. RESISTOR CH 1/10W 22K	1	
R3607	ERJ6GEYJ224	M. RESISTOR CH 1/10W 220K	1		R4009		M. RESISTOR CH 1/10W 100K	_ 1	
R3608	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R4010	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R3609	ERJ6GEYG821	M. RESISTOR CH 1/10W 820	1		R4011	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R3610	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	1		R4012	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R3611	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R4014	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	
R3612	ERJ6GEYG474	M. RESISTOR CH 1/10W 470K	1		R4015	ERJ6GEYJ113	M. RESISTOR CH 1/10W 11K	1	
R3613	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1		R4018	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
			2		R4017		M. RESISTOR CH 1/10W 4.7K	1	
	ERJ6GEYG102		-					1	<del> </del>
R3617	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R4018		M. RESISTOR CH 1/10W 1M	1 -	
R3618		M. RESISTOR CH 1/10W 560	_1		R4019	ERJ6RBD471	M. RESISTOR CH 1/10W 470	1	
R3620		M. RESISTOR CH 1/10W 3.3K	1		R4020	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	1	
R3621	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1		R4021, 22	ERJ6RBD202	M. RESISTOR CH 1/10W 2K	2	
R3622	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		R4023	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	1	
R3623		M. RESISTOR CH 1/10W 10K	1		R4024	ERJ6RBD201	M. RESISTOR CH 1/10W 200	1	
R3624		M. RESISTOR CH 1/10W 0	1			ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	3	
R3625		M. RESISTOR CH 1/10W 47K	1			ERJ3RBD103	M. RESISTOR CH 3W 10K	2	
R3626		M. RESISTOR CH 1/10W 100	1				M. RESISTOR CH 1/16W 0	2	·
R3627		M. RESISTOR CH 1/10W 100K	1			ERJ3RBD103	M. RESISTOR CH 3W 10K	4	<del>                                     </del>
						-		2	
R3628		M. RESISTOR CH 1/10W 15K	1			ERJ3RBD103	M. RESISTOR CH 3W 10K	-	
R3629, 30		M. RESISTOR CH 1/10W 10K	2			ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	
R3631	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1		R4217, 18	ERJ3RBD103	M. RESISTOR CH 3W 10K	2	
R3632	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		R4219-22	ERJ3RBD472	M. RESISTOR CH 1/10W 4.7K	4	
R3633	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		R4223, 24	ERJ3RBD103	M. RESISTOR CH 3W 10K	2	
R3634	ERJ6GEYG683	M. RESISTOR CH 1/10W 68K	1		R4225, 26	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	
R3635		M. RESISTOR CH 1/10W 680K	1		R4227, 28	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	
R3636		M. RESISTOR CH 1/10W 75	1			ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	4	
R3637		M. RESISTOR CH 1/10W 330	<u> </u>		R4233	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
		M. RESISTOR CH 1/10W · 820K			R4301	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
R3638			1		1			+ ·	
R3640		M. RESISTOR CH 1/10W 3.9K	1		R4302	ERJ6RBD391	M. RESISTOR CH 1/10W 390	1	
R3641		M. RESISTOR CH 1/10W 1K	1		R4303	ERJ6RBD472	M. RESISTOR CH 1/10W 4.7K	1	
R3643	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1		R4305	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
R3701	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R4306, 07	ERJ6RBD183	M. RESISTOR CH 1/10W 18K	2	
R3702	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	ì	R4308	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R3703	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4309	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1	
R3709		M. RESISTOR CH 3W 2.7K	1		R4310	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R3710		M. RESISTOR CH 3W 3.3K	1		R4311		M. RESISTOR CH 1/10W 1K	1	
R3711		M. RESISTOR CH 1/16W 390K	1		R4312		M. RESISTOR CH 1/10W 100	1	
			-					+ :	
								-	
		M. RESISTOR CH 1/16W 390	1		R4314		M. RESISTOR CH 1/10W 1K	-	
		M. RESISTOR CH 1/16W 4.7K	1		R4315		M. RESISTOR CH 1/10W 12K	-	
		M. RESISTOR CH 1/16W 10K	5		R4316		M. RESISTOR CH 1/10W 10K	-	
		M. RESISTOR CH 1/16W 10K	6		R4317		M. RESISTOR CH 1/10W 12K	-	
		M. RESISTOR CH 1/16W 0	1		R4318		M. RESISTOR CH 1/10W 200K	1	
R3736	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R4319	ERJ6RBD104	M. RESISTOR CH 1/10W 100K	1	
R3737	ERJ3GEYJ270	M. RESISTOR CH 1/16W 27	1		R4320	ERJ6RBD103 ·	M. RESISTOR CH 1/10W 10K	1	
R3739, 40	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R4321	ERJ6RBD104	M. RESISTOR CH 1/10W 100K	1	
		M. RESISTOR CH 1/10W 75	9		R4322		M. RESISTOR CH 1/10W 200K	1	
		M. RESISTOR CH 1/10W 4. 7K	1		R4323		M. RESISTOR CH 1/10W 27K	1	
			1		R4324		M. RESISTOR CH 1/10W 750	1	<del>                                     </del>
			~~					<u> </u>	
		M. RESISTOR CH 1/10W 33K	1		R4325		M. RESISTOR CH 1/10W 200K	1	
		M. RESISTOR CH 1/10W 120	1		R4326		M. RESISTOR CH 1/10W 1.1K	1	
		M. RESISTOR CH 1/10W 110	1		R4327		M. RESISTOR CH 1/10W 100	1	
R3915	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1		R4328	ERJ6RED204	M. RESISTOR CH 1/10W 200K	1	
R3916	ERJ6GEYF333	M. RESISTOR CH 1/10W 33K	1		R4329	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1	
R3917	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1		R4330	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R3918		M. RESISTOR CH 1/10W 22K	1		R4331		M. RESISTOR CH 1/10W 1M	1	
R3919		M. RESISTOR CH 1/10W 110	1		R4332		M. RESISTOR CH 1/10W 22K	1	
R3920		M. RESISTOR CH 1/10W 120	1		R4333		M. RESISTOR CH 1/10W 47K	1	
			3		R4334			1	
		M. RESISTOR CH 1/10W 75						-	
R3924		C. RESISTOR 1/4W 560	1		R4335		M. RESISTOR CH 1/10W 22K		
R3925		M. RESISTOR CH 1/10W 100K	1		R4336		M. RESISTOR CH 1/10W 10K	1	
R3926	ERJ6GEYG750	M. RESISTOR CH 1/10W 75	1		R4337	ERJ6RBD273	M. RESISTOR CH 1/10W 27K	1	
R3927	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1		R4338	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R3928	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1		R4339	ERJ6RBD363	M. RESISTOR CH 1/10W 36K	1	
					1			<u> </u>	

								,	
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Рc	s Remarks
R4340	ERJ6RBD103	M. RESISTOR CH 1/10W 10K			R6008	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	_	
R4342	ERJ6RBD683	M. RESISTOR CH 1/10W 68K	1		R6009		M. RESISTOR CH 1/16W 10K	-	
R4343	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	1		R6010		M. RESISTOR CH 1/16W 56	-	
		M. RESISTOR CH 1/10W 68K	1		R6011		M. RESISTOR CH 1/16W 1.5K	1	
R4344	ERJ6RBD683 ERJ6RBD223		1				M. RESISTOR CH 1/16W 1.50	1	
R4345			1		R6012		M. RESISTOR CH 1/16W 1M	1	
R4347	ERJ3GEYJ103		_		R6014			'	
<u> </u>	ERJ6GEYG681	M. RESISTOR CH 1/10W 680	2		R6015			Η.	
R4350	-	M. RESISTOR CH 1/16W 120K	1				M. RESISTOR CH 1/16W 100	3	
R4351	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1		R6019		M. RESISTOR CH 1/16W 0	1	
R4352	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1		R6024	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	1	
R4353	ERJ6RBD392	M. RESISTOR CH 1/10W 3.9K	1		R6025-28	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	,
R4354, 55	ERJ6RBD223	M. RESISTOR CH 1/10W 22K	2		R6029	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1	
R4356	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1		R6034, 35	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	:
R4357	ERJ6RBD363	M. RESISTOR CH 1/10W 36K	1		R6036-38	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150	3	i
R4358	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R6039	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4359	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1		R6042	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R4360	ERJ6RBD363	M. RESISTOR CH 1/10W 36K	1		R6043	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1	
R4361	ERDAS3G680	M. RESISTOR 3W 68	1		R6044	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	
R4362		M. RESISTOR CH 1/10W 1K	1		R6045		M. RESISTOR CH 1/16W 33K	1	
R4363		M. RESISTOR CH 1/10W 10K	1		R6046		M. RESISTOR CH 1/16W 47K	1	
R4364	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1		R6047		M. RESISTOR CH 1/16W 1K	1	<del></del>
			1				M. RESISTOR CH 1/16W 150	2	
R4365	ERDAS3G680	M. RESISTOR 3W 68						-	
R4366		M. RESISTOR CH 1/10W 10K	1		R6050		M. RESISTOR CH 1/16W 1.5K	1	
R4367	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1		R6051		M. RESISTOR CH 1/16W 150	1	
R4368		M. RESISTOR CH 1/10W 1K	1		R6052		M. RESISTOR CH 1/16W 47K	1	
R4369	ERJ3RBD513	M. RESISTOR CH 3W 51K	_1		R6053		M. RESISTOR CH 1/16W 0	1	
R4370	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R6054, 55	ERJ3GEYG103	M. RESISTOR CH 1/16W 10K	2	
R4371	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R6056, 57	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	
R4372	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		R6058-61	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4	
R4373	ERJ3RBD513	M. RESISTOR CH 3W 51K	1		R6063-65	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3	
R4374	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		R6066	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R4375	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R6067	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4376		M. RESISTOR CH 1/10W 0	1			ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	-
R4377	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1		R6070		M. RESISTOR CH 1/16W 3.3K	1	
R4379	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	<u> </u>		R6071		M. RESISTOR CH 1/16W 22K	1	
R4380	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	$\frac{1}{1}$		R6072		M. RESISTOR CH 1/16W 0	1	
			<u></u>		R6073		M. RESISTOR CH 1/16W 47K	1	
R4381	ERJ3GEYJ101			i	<u> </u>			2	
R4382	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1				M. RESISTOR CH 1/16W 0	-	
R4384	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		R6080	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	
R4385	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		R6082		M. RESISTOR CH 1/16W 0	1	
R4386	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	_1		-		M. RESISTOR CH 1/16W 0	2	
R4387		M. RESISTOR CH 1/16W 4.7K	1		R6087	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R4388	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	_1		R6089-91	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	
R4389	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R6092	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4390	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	·	R6093	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56	1	
R4391	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R6095	ERJ3GEYG223	M. RESISTOR CH 1/16W 22K	1	
R4392	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1		R6096	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	
R4393	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1		R6097	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	
R4394		M. RESISTOR CH 1/16W 560	1		R6098	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
		M. RESISTOR CH 1/10W 100	1		R6099		M. RESISTOR CH 1/16W 10K	1	
R4397		M. RESISTOR CH 1/16W 0	- <u>-</u>	· · ·	R6100		M. RESISTOR CH 1/16W 1K	1	
		M. RESISTOR CH 1/16W 1K	1	· ·	R6101		M. RESISTOR CH 1/16W 22K	<del> </del>	
							M. RESISTOR CH 1/16W 3.3K	2	
		M. RESISTOR CH 1/16W 5. 6K	3					1	
		M. RESISTOR CH 1/16W 5. 6K	3		R6104		M. RESISTOR CH 1/16W 0	H	+
		M. RESISTOR CH 1/10W 10K	2		R6105		M. RESISTOR CH 1/16W 15K	H	
		M. RESISTOR CH 1/10W 2.2K	1		R6107		M. RESISTOR CH 1/16W 0	$\vdash^1$	
		M. RESISTOR CH 1/10W 0	_1		R6108		M. RESISTOR CH 1/16W 100K	1	
		M. RESISTOR CH 1/10W 2.2K	1		R7302		M. RESISTOR CH 1/16W 0	1	
R4706-09	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	4		R7305, 06	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R4710	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K	1		R7316	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	_1	
R4712-18	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	7		R7318	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	
R4719		M. RESISTOR CH 1/10W 56	1		R7324	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	
R4721		M. RESISTOR CH 1/10W 2.7K	1		R7325		M. RESISTOR CH 1/16W 10K	1	
		M. RESISTOR CH 1/10W 2.2K	1		R7326		M. RESISTOR CH 1/16W 39K	1	
		M. RESISTOR CH 1/10W 47K	1		R7327		M. RESISTOR CH 1/16W 8.2K	1	
		M. RESISTOR CH 1/10W 4.7K	1				M. RESISTOR CH 1/16W 220	2	
		M. RESISTOR CH 1/10W 4. /k	1				M. RESISTOR CH 1/10W 100	2	
			_					1	<del> </del>
		M. RESISTOR CH 1/10W 10K	1		R7603		M. RESISTOR CH 1/10W 1K	H.	<del> </del>
		M. RESISTOR CH 1/10W 27K	2				M. RESISTOR CH 1/10W 0	1	
		M. RESISTOR CH 1/10W 100	2				M. RESISTOR 2W 330	2	
		M. RESISTOR CH 1/10W 100	2				M. RESISTOR CH 1/10W 68K	2	
		M. RESISTOR CH 1/10W 100	2		R7609, 10		M. RESISTOR CH 1/10W 150	2	
R6001	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R7611	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	_1	
R6003	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R7612	ERJ6GEYF561	M. RESISTOR CH 1/10W 560	_1	
R6006	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R7613, 14	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
		•							
							• • •		

										_	
Ref. No.	Part No.	Part Name & Descr	iption	Pcs	Remarks	Ref. No.	Part No.	Part Name & Descri	ption	Pc	Remarks
R7622	ERJ6GEYG104	M. RESISTOR CH 1/10W		1			ERJ6GEYG101	M. RESISTOR CH 1/10W	100	3	
R7624	<del></del>	M. RESISTOR CH 1/10W		1		R30073		M. RESISTOR CH 1/16W	10K	1	
R7651	ERJ6GEYF473	M. RESISTOR CH 1/10W	47K	1		R30074	VLF1315A102	FILTER		1	
R7653	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1			ERJ3GEYJ222	M. RESISTOR CH 1/16W	2. 2K	2	
R7936	ERJ6GEYG392	M. RESISTOR CH 1/10W	3. 9K	1		<u> </u>	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	2	
R7937	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1		R30079	ERJ3GEYJ561	M. RESISTOR CH 1/16W	560	1	
R7938	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1		R30080	ERJ3GEYJ334	M. RESISTOR CH 1/16W	330K	1	
R7939-41	ERJ6GEYJ471	M. RESISTOR CH 1/10W	470	3		R30081		M. RESISTOR CH 1/10W	82K	1	
	+	M. RESISTOR CH 1/10W	100	2		R30082	ERJ6RBD104	M. RESISTOR CH 1/10W	100K	1	
R7944	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	1	***************************************	R30083		M. RESISTOR CH 1/16W	1K	1	
R7945		M. RESISTOR CH 1/10W	4. 7K	+		R30086		M. RESISTOR CH 1/16W	560	1	
R7946	ERJ6GEYG103	M. RESISTOR CH 1/10W	10K	+		R30087		M. RESISTOR CH 1/16W	1K	1	
R7947	·	M. RESISTOR CH 1/10W	4. 7K	1		R30088		M. RESISTOR CH 1/16W	470	1	
R7948		M. RESISTOR CH 1/10W	10K	1		R30089		M. RESISTOR CH 1/16W	47K	1	
R7950		M. RESISTOR CH 1/10W	1 0K	1		R30090		M. RESISTOR CH 1/16W	330	1	
R7953	· <del> </del>	M. RESISTOR CH 1/10W	0	1				M. RESISTOR CH 1/16W	470		
R7954	<del>                                     </del>	M. RESISTOR CH 1/10W	1 0K	1		R30093		M. RESISTOR CH 1/16W	2. 2K	1	
		M. RESISTOR CH 1/10W	5. 6K	1		R30094		M. REISITOR CH 1/10W	6. 8K	1	
R30002	+	M. RESISTOR CH 1/10W	22K	1		R30095		M. RESISTOR CH 1/10W	3. 3K	1	
R30002	-	M. RESISTOR OH 1/10W	100K	1		R30097		M. RESISTOR CH 1/16W	100K	1	
R30004	<del></del> -	M. RESISTOR CH 1/10W	2. 7K	1		R30098		M. RESISTOR CH 1/10W	220	- <u>-</u>	
R30005	ERJ3GEYJ391	M. RESISTOR CH 1/16W	390	1		R30099		M. RESISTOR CH 1/16W	27K	1	
R30006	+	M. RESISTOR CH 1/16W	110K	1		R30100		M. RESISTOR CH 1/16W	220K	1	
R30008	+	M. RESISTOR CH 1/10W	22K	1		R30101		M. RESISTOR CH 1/10W	100K	1	
R30009		M. RESISTOR CH 1/10W	1K	1		R30102		M. RESISTOR CH 1/10W	2. 2M	1	
R30010	1	M. RESISTOR CH 1/10W	18K	1		R30103		M. RESISTOR CH 1/16W	47K	1	
R30010	1	M. RESISTOR CH 1/16W	12K	1		R30103		M. RESISTOR OH 1/16W	4. 7K	1	
R30012	ERJ6GEYG821	M. RESISTOR CH 1/10W	820	1		<b></b>		M. RESISTOR CH 1/10W	4. 7K	3	
R30013	<b>+</b>	M. RESISTOR CH 1/10W	1.3K	1		R30108		M. RESISTOR CH 1/10W	100	1	
R30014	ERJ6GEYG222	M. RESISTOR CH 1/10W	2. 2K	1				FILTER		1	
R30017		M. RESISTOR CH 1/16W	1 K	1				M. RESISTOR CH 1/10W	100	2	
R30018	ERJ3GEYJ181	M. RESISTOR CH 1/16W	180	1				FILTER		1	
R30019	ERJ3GEYJ561	M. RESISTOR CH 1/16W	560	1				M. RESISTOR CH 1/16W	100	1	
R30020		M. RESISTOR CH 1/16W	33K	1				M. RESISTOR CH 1/10W	3. 3K	- 2	
	ERJ3GEYJ271	M. RESISTOR CH 1/16W	270	1				M. RESISTOR CH 1/10W	0	_ <u></u>	
	<del>                                     </del>	M. RESISTOR CH 1/16W	22K	1				M. RESISTOR CH 1/16W	100	2	
	t	M. RESISTOR CH 1/16W	1. 1K	1				M. RESISTOR CH 1/16W	10K	4	
	<del> </del>	M. RESISTOR CH 1/16W	1K	<u> </u>		R30135, 36		COIL		2	
	ERJ3GEYJ821	M. RESISTOR CH 1/16W	820	1		R30139, 40		COIL			Leura Liverage
R30026	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1				M. RESISTOR CH 1/16W	6. 8K	1	
R30027	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1			ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 QK	1	
R30028	ERJ6GEYF561	M. RESISTOR CH 1/10W	560	1		R30143, 44	VLF1315A102	FILTER		2	
R30029	ERJ6GEYF333	M. RESISTOR CH 1/10W	33K	1		R30145	ERJ6GEYG104	M. RESISTOR CH 1/10W	100K	1	
R30030	ERJ3GEYJ241	M. RESISTOR CH 1/16W	240	1		R30146	VLP0147	COIL		1	
R30031	ERJ6GEYG223	M. RESISTOR CH 1/10W	22K	1		R30148	VLF1315A102	FILTER		1	
R30032	ERJ3GEYJ112	M. RESISTOR CH 1/16W	1. 1K	1		R30149	ERJ3GEYJ821	M. RESISTOR CH 1/16W	820	1	
R30033	ERJ6GEYG102	M. RESISTOR CH 1/10W	1K	1		R30150, 51	ERJ6GEYG682	M. REISITOR CH 1/10W	6. 8K	2	
R30034	ERJ6GEYG821	M. RESISTOR CH 1/10W	820	1		R30152	ERJ6GEYG103	M. RESISTOR CH 1/10W	1 OK	1	
R30035, 36	ERJ3GEYG102	M. RESISTOR CH 1/16W	1 K	2		R30153	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
R30037	ERJ3GEYJ112	M. RESISTOR CH 1/16W	1. 1K	1		R30154	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
R30038	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K	1		R30155	ERJ6GEYG103	M. RESISTOR CH 1/10W	1 OK	1	
R30039	ERJ3GEYJ561	M. RESISTOR CH 1/16W	560	1		R30156	ERJ6GEYF473	M. RESISTOR CH 1/10W	47K	1	
R30040	ERJ3GEYJ273	M. RESISTOR CH 1/16W	27K	1		R30157	ERJ6GEYF472	M. RESISTOR CH 1/10W	4. 7K	1	
R30041	ERJ6GEYG121	M. RESISTOR CH 1/10W	120	1		R30158	ERJ6GEYG331	M. RESISTOR CH 1/10W	330	1	
R30042	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1		R30159	ERJ3GEYJ182	M. RESISTOR CH 1/16W	1.8K	1	
R30043	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1		R30160, 61	ERJ6GEYG101	M. RESISTOR CH 1/10W	100	2	
R30044	ERJ3GEYG822	M. RESISTOR CH 1/16W	8. 2K	1		R30166	ERJ3GEYJ562	M. RESISTOR CH 1/16W	5. 6K	1	
R30045	ERJ6GEYF123	M. RESISTOR CH 1/10W	12K	1		R30167	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	1	
R30048 47			10K	2		R30168	ERJ3GEYJ563	M. RESISTOR CH 1/16W	56K	1	
1,50040, 47	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10/						330	1	
	<del> </del>	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	820	_1		R30169	ERJ6GEYG331	M. RESISTOR CH 1/10W	330		
R30048	ERJ3GEYJ821		_	1				M. RESISTOR CH 1/10W	820	1	
R30048 R30049	ERJ3GEYJ821 ERJ6GEYF473	M. RESISTOR CH 1/16W	820	1 1		R30170	ERJ6GEYG821				
R30048 R30049	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223	M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 47K	1 1 1		R30170 R30171	ERJ6GEYG821 ERJ3GEYG102	M. RESISTOR CH 1/10W	820		
R30048 R30049 R30051	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333	M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W	820 47K 22K	1 1 1 1		R30170 R30171 R30172	ERJ6GEYG821 ERJ3GEYG102 ERJ6GEYG911	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W	820 1K		
R30048 R30049 R30051 R30052	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3GEYG102 ERJ3GEYJ391	M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W	820 47K 22K 33K	1 1 1 1		R30170 R30171 R30172 R30173 R30174	ERJ6GEYG821 ERJ3GEYG102 ERJ6GEYG911 ERJ6GEYF333 ERJ3GEYJ331	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W	820 1K 910		
R30048 R30049 R30051 R30052 R30053	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3GEYJ332 ERJ3GEYJ391	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	820 47K 22K 33K 1K	1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175	ERJ6GEYG821 ERJ3GEYG102 ERJ6GEYG911 ERJ6GEYF333 ERJ3GEYJ331 ERJ6GEYG223	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	910 33K		
R30048 R30049 R30051 R30052 R30053 R30054	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3GEYJ332 ERJ3GEYJ391	M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W	820 47K 22K 33K 1K 390	1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175	ERJ6GEYG821 ERJ3GEYG102 ERJ6GEYG911 ERJ6GEYF333 ERJ3GEYJ331 ERJ6GEYG223	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W	910 33K 330		
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30056 R30057	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3GEYG102 ERJ3GEYJ391 ERJ3GEYJ105 ERJ3RBD153 ERJ3GEYJ391	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	820 47K 22K 33K 1K 390 1M 15K 390	1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176	ERJ6GEYG821 ERJ3GEYG102 ERJ6GEYG911 ERJ6GEYF333 ERJ3GEYJ331 ERJ6GEYG223 ERJ3GEYJ111 ERJ3GEYJ121	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	820 1K 910 33K 330 22K 36K 120		
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30056 R30057	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3GEYJ1391 ERJ3GEYJ105 ERJ3RBD153 ERJ3GEYJ391 ERJ3GEYJ391 ERJ3GEYJ391	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 47K 22K 33K 1K 390 1M 15K 390 1K	1 1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176 R30177 R30177	ERJ6GEYG821 ERJ3GEYG102 ERJ6GEYG911 ERJ6GEYF333 ERJ3GEYJ331 ERJ6GEYG223 ERJ3GEYJ111 ERJ3GEYJ121 ERJ3GEYG102	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W	820 1K 910 33K 330 22K 36K 120 1K		
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30056 R30057 R30058	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3GEYJ391 ERJ3GEYJ391 ERJ3GEYJ395 ERJ3GEYJ391 ERJ3GEYJ391 ERJ3GEYJ391 ERJ6GEYG102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	820 47K 22K 33K 1K 390 1M 15K 390 1K	1 1 1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176 R30177 R30178	ERJ66EY6821 ERJ36EYG102 ERJ66EYG911 ERJ66EYF333 ERJ36EYJ331 ERJ66EYG223 ERJ36EYJ111 ERJ36EYJ121 ERJ36EYG102 ERJ66EYG104	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 1K 910 33K 330 22K 36K 120 1K 100K		
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30056 R30057 R30058 R30061 R30064	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3GEYJ00 ERJ3GEYJ391 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ091 ERJ3GEYJ091 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	820 47K 22K 33K 1K 390 1M 15K 390 1K 1K 4. 3K	1 1 1 1 1 1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176 R30177 R30178 R30179	ERJ6GEYG821 ERJ3GEYG102 ERJ6GEYG911 ERJ6GEYF333 ERJ3GEYJ331 ERJ6GEYG223 ERJ3GEYJ111 ERJ3GEYJ111 ERJ3GEYJ121 ERJ3GEYG102 ERJ6GEYG104 ERJ6GEYG153	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W	820 1K 910 33K 330 22K 36K 120 1K 100K 15K	1 1 1 1 1 1 1 1 1 1 1	
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30056 R30057 R30058 R30061 R30064	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ333 ERJ3GEYJ091 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ091 ERJGEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 47K 22K 33K 1K 390 1M 15K 390 1K 1K 4.3K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176 R30177 R30178 R30179 R30180	ERJ6GEYG821 ERJ3GEYG102 ERJ6GEYG911 ERJ6GEYF333 ERJ3GEYJ331 ERJ6GEYG223 ERJ3GEYJ111 ERJ6GEYG121 ERJ6GEYG102 ERJ6GEYG104 ERJ6GEYG104 ERJ6GEYG133 ERJ3GEYJ333	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 1K 910 33K 330 22K 36K 120 1K 100K 15K 33K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30056 R30057 R30058 R30061 R30064 R30065 R30066	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ393 ERJ3GEYJ391 ERJ3GEYJ391 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJGEYG102 ERJGEYG102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 47K 22K 33K 1K 390 1M 15K 390 1K 1K 4. 3K 10K	1 1 1 1 1 1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176 R30176 R30177 R30178 R30180 R30181	ERJ66EY6821 ERJ36EYG102 ERJ66EYG911 ERJ66EYF333 ERJ36EYJ331 ERJ66EYG223 ERJ36EYJ111 ERJ36EYG102 ERJ6EYG102 ERJ6EYG104 ERJ6EYG104 ERJ6EYG133 ERJ36EYJ333 ERJ36EYJ333	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	820 1K 910 33K 330 22K 36K 120 1K 100K 15K 33K 330	1 1 1 1 1 1 1 1 1 1 1	
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30057 R30058 R30061 R30064 R30065 R30065 R30068	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ391 ERJ3GEYJ391 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJGEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 47K 22K 33K 1K 390 1M 15K 390 1K 1K 4.3K 10K 1K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176 R30177 R30177 R30178 R30180 R30181 R30182, 83	ERJ66EY6821 ERJ36EYG102 ERJ66EYG911 ERJ66EYF333 ERJ36EYJ331 ERJ66EYG223 ERJ36EYJ111 ERJ36EYJ111 ERJ36EYJ121 ERJ36EYG102 ERJ66EYG104 ERJ6EYG133 ERJ36EYJ333 ERJ36EYJ331 ERJ36EYJ331	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	820 1K 910 33K 330 22K 36K 120 1K 100K 15K 33K 330 15K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30056 R30057 R30058 R30061 R30064 R30065 R30066, 67	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ391 ERJ3GEYJ391 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJGEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 47K 22K 33K 1K 390 1M 15K 390 1K 1K 4. 3K 10K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176 R30177 R30177 R30178 R30180 R30181 R30182, 83	ERJ66EY6821 ERJ36EYG102 ERJ66EYG911 ERJ66EYF333 ERJ36EYJ331 ERJ66EYG223 ERJ36EYJ111 ERJ36EYJ111 ERJ36EYJ121 ERJ36EYG102 ERJ66EYG104 ERJ6EYG133 ERJ36EYJ333 ERJ36EYJ331 ERJ36EYJ331	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	820 1K 910 33K 330 22K 36K 120 1K 100K 15K 33K 330	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R30048 R30049 R30051 R30052 R30053 R30054 R30055 R30057 R30058 R30061 R30064 R30065 R30065 R30068	ERJ3GEYJ821 ERJ6GEYF473 ERJ3GEYJ223 ERJ3GEYJ391 ERJ3GEYJ391 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJ3GEYJ105 ERJGEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102 ERJ6GEYG102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W	820 47K 22K 33K 1K 390 1M 15K 390 1K 1K 4.3K 10K 1K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R30170 R30171 R30172 R30173 R30174 R30175 R30176 R30177 R30177 R30178 R30180 R30181 R30182, 83	ERJ66EY6821 ERJ36EYG102 ERJ66EYG911 ERJ66EYF333 ERJ36EYJ331 ERJ66EYG223 ERJ36EYJ111 ERJ36EYJ111 ERJ36EYJ121 ERJ36EYG102 ERJ66EYG104 ERJ6EYG133 ERJ36EYJ333 ERJ36EYJ331 ERJ36EYJ331	M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/10W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	820 1K 910 33K 330 22K 36K 120 1K 100K 15K 33K 330 15K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Ref. No.	Part No.	Part Name & Description	Pro	Remarks	Ref. No.	Part No.	Part Name & Description	P٠	s Remarks
R30186		M. RESISTOR CH 1/16W 1K	-	Wound' V2	KC1. NU.	1 111 110.	are name a nescribitor		d Wongt V2
R30187		M. RESISTOR CH 1/10W 820	+	<del>  </del>	VR0701	EVNCBAA00B24	V. RESISTOR 20K	1	<del> </del>
	-			<b> </b> -	VR30001	EVM7JGA00B15		1	<del></del>
		<del> </del>	1					_	<del>                                     </del>
R30190		FILTER	<del>-</del>			EVMEGSA00B24		_1	
R30195	<del></del>	M. RESISTOR CH 1/10W 10K			VR30003, 0	EVM7JGA00B54	V. RESISTOR 50K	2	
R30196	1	M. RESISTOR CH 1/10W 100	+						
R30197	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1		W101, 02	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	!
R30198	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		W102	ERJ6GMZOROO	M. RESISTOR CH 1/10W 0	1	
R30199	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1		W103	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R30200	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		W103	ERJ8GEYOROO	M. RESISTOR CH 1/8W 0	1	
R30201	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1		W104	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
R30202		M. RESISTOR CH 1/16W 1K	-		W104		M. RESISTOR CH 1/8W 0	1	
R30203		M. RESISTOR CH 1/10W 100K	1		W105		M. RESISTOR CH 1/10W 0	1	
R30204	<del>-</del>	M. RESISTOR CH 1/10W 150K	1		W105, 06		M. RESISTOR CH 1/10W 0	2	
R30205		M. RESISTOR CH 1/10W 470	Ι÷		W107	-	M. RESISTOR CH 1/16W 0	1	
	<del> </del>	<del> </del>	ļ			· · · · · · · · · · · · · · · · · · ·		1	
R30206		M. RESISTOR CH 1/16W 100K	1		W108		M. RESISTOR CH 1/10W 0		····
R30207		M. RESISTOR CH 1/16W 150K	1		W109		M. RESISTOR CH 1/8W 0	_1	
R30208	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		W111	ERJ6GMZOROO	M. RESISTOR CH 1/10W 0	_ 1	
R30211	ERJ3GEYJ391	M. RESISTOR CH 1/16W 390	1		W112	ERJ8GEYOROO	M. RESISTOR CH 1/8W 0	1	
R30212	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		W113	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	
R30213	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1		W114	ERJ8GEY0R00	M. RESISTOR CH 1/8W 0	1	
R30216	·	M. RESISTOR CH 1/16W 330	1				M. RESISTOR CH 1/16W 0	2	
	+	M. RESISTOR CH 1/16W 470	2						
R30219	<del>+</del>	M. RESISTOR CH 1/10W 47K	1		X0701	VLF1416	FILTER	1	İ
R30219	<del> </del>	M. RESISTOR CH 1/10W 100	1		X0701 X0702	VLF1290	FILTER	<u> </u>	
	·		⊢÷					-¦	
R30222		M. RESISTOR CH 1/10W 560	1		X0703	EFCS5R5MW5	FILTER	_ 1	
R30223		M. RESISTOR CH 1/16W 220	1	L	X0704	VLF1313	FILTER		AG-DV2700B
R30224	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	IL	X0704	VLF1368	FILTER	_1	AG-DV2700E
R30225	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1		X2001	VSX0847	CRYSTAL OSCILLATOR	_1	
R30226	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		X2002	VSX0872	CRYSTAL OSCILLATOR	1	
R30227	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		X2201	VSX0830	CRYSTAL OSCILLATOR	1	
R30228		M. RESISTOR CH 1/10W 820	1		X2202	VSX0660	CRYSTAL OSCILLATOR	1	
R30229	+	M. RESISTOR CH 1/16W 470K	1		X2203		CRYSTAL OSCILLATOR	1	
R30230		M. RESISTOR CH 1/16W 1K	1		X3001		CRYSTAL OSCILLATOR	1	
									l
R30231	<del>}</del>	M. RESISTOR CH 1/10W 1K	1		X3003		CRYSTAL OSCILLATOR	- (	
R30232		M. RESISTOR CH 1/10W 33K	1		X3004		CRYSTAL OSCILLATOR	1	
R30233		M. RESISTOR CH 1/10W 22K	1		X4701		CRYSTAL OSCILLATOR	_1	
R30234	ERJ6GEYG331	M. RESISTOR CH 1/10W 330	1		X6001	VSX0847	CRYSTAL OSCILLATOR	1	
R30235	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1		X7302	VSX0953	CRYSTAL OSCILLATOR	1	
R30236	ERJ6GEYG121	M. RESISTOR CH 1/10W 120	1		X7902	EF0EC4004A4	CRYSTAL OSCILLATOR	1	
R30237	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		X30001	VSX1030	CRYSTAL OSCILLATOR	1	
R30238	•	M. RESISTOR CH 1/16W 100	1		X30002		CRYSTAL OSCILLATOR	1	
	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	-	X30003		CRYSTAL OSCILLATOR	1	
	<del> </del>	FILTER	2		X30003		CRYSTAL OSCILLATOR	1	
R30243	ERJ6GEYG183	M. RESISTOR CH 1/10W 18K	1		X30005	VSX0942	CRYSTAL OSCILLATOR	1	
R30244	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1						
R30245	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		ZA3001-03		SCREW	3	<del></del>
R30246	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1		ZA3004	VSC4689	SHIELD CASE (B)	1	
R30247	VLF1315A102	FILTER	1		ZA3005	VSC4690	SHIELD CASE (T)	1	
R30248, 49	VLP0147	COIL	2		ZA3901	VEJ1819	IN/OUT JACK	1	
R30250	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		ZA3902-05	XTV3+8GFZ	SCREW	4	
R30251	<del> </del>	M. RESISTOR CH 1/10W 3.3K	1		ZA30001-0		SCREW	3	
R30252		M. RESISTOR CH 1/16W 1K	1	——————————————————————————————————————	ZA30004		SHIELD CASE (B)	1	
R30253	<del></del>	M. RESISTOR CH 1/10W 1.1K	1				SHIELD CASE (T)	÷	
R30254		M. RESISTOR CH 1/10W 1K	1		2.10000				
1100204	LIGOGE 18102	m. NEOTOTON OF 17 TON TA	H		700001	V ID1041	DEVD IVEN DUYDU		
00001	14000515	OWL ZOU	$\vdash$				REAR JACK BOARD	1	
\$3901	VSS0513	SWITCH	_1				MINI CLAMPER	1	
					ZB4001, 02		CARD CORNER HOLDER	2	
T0703	EQV5EC071A	TRANSFORMER	1		ZB6701, 02	VMP4985	CARD CORNER HOLDER	2	
T0704	EQV5EC072A	TRANSFORMER	1						
T0711	EQS5EC032A	TRANSFORMER	- 1				MISCELLANEOUS	_	
TP2201	VJR0098	TEST POINT	1			VEE0C99	CABLE	1	P1102-P1001
TP3002	VJR0098	TEST POINT	1				SHIELD CASE (LOWER)	1	
TP3021	VJR0098	TEST POINT	1				SHIELD CASE (MIDDLE)	<del>-</del>	
TP3030-32		TEST POINT	3				FLAT CARD CABLE	1	P7502-P7001
-			-						P7502-P7901
TP3701, 02		TEST POINT	2				FLAT CARD CABLE		P7501-P7902
TP3901	VJR0098	TEST POINT	1				FLAT CARD CABLE	_	PS4851-P6081
TP30001-0	VJR0108	TEST POINT	5			VWJ1248	FLAT CARD CABLE	1	P4801-P4001
TP30007-1	VJR0108	TEST POINT	8						
								_	
TU7601	VEK8433	RF BOARD	1						
·····	1		$\dashv$						•
VC30001	ECRJA020E11	TRIMMER 20P	1	——————————————————————————————————————					
			-	}-					
v030002, 0	EORGAUSUM11	E. CAPACITOR 10U	2	-					
i			$\sqcup$						
"									

Ref. No.										
	Part No.	Part Name & Descriptio	nPc (	Remarks	Ref. No.	Part No.	Part Name & Desc	rintio	r Pc	s Remarks
	VEP05351A	HEAD AMP C. B. A.	_	(RTL)	C2704	<del></del>	E. CAPACITOR 50	_	_	
	- VEI 00001X	TIEAD AMI V. D. A.	┼.	(K/E)	C2705		C. CAPACITOR CH 16V		-	`
05001-04	E011V1 U1 027E)	O CARACITOR CU FOV. O CIU	1		l				-	
	<del></del>	C. CAPACITOR CH 50V 0. 01U			C2706	<del> </del>	C. CAPACITOR CH 16\		-	
C5007	<del></del>	C. CAPACITOR CH 50V 0. 01U	+		C2707	+	C. CAPACITOR CH 10\		+	+
C5010		C. CAPACITOR CH 50V 0. 01U	+		C2708	<del></del>	C. CAPACITOR CH 50\		-	
C5013	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1		C2709	EEVHB1C100	E. CAPACITOR 16\	100	1	
C5014	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1		C2710, 11	EEVHB1H2R2	E. CAPACITOR 50\	2. 20	2	?
C5015	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1		C2712, 13	ECUX1C473KBV	C. CAPACITOR CH 16V	0. <b>047</b> U	2	!
C5016	ECUX1H330JCV	C. CAPACITOR CH 50V 33P	1		C2714, 15	ECUM1C104ZFN	C. CAPACITOR CH 16V	0.10	2	
C5017	+	C, CAPACITOR CH 50V 0.01U					C. CAPACITOR CH 16V		+	
	<del></del>	<del></del>	+		l <b>-</b>		C. CAPACITOR CH 16V		-	
C5018	<del>                                     </del>	C. CAPACITOR CH 50V 22P	1		C2719				+	<del>                                     </del>
C5019		C. CAPACITOR CH 50V 0.01U	+				C. CAPACITOR CH 50V		+	· ·
C5020, 21	ECST1AY106Z	T. CAPACITOR CH 10V 10U	2		C2723		E. CAPACITOR 10V		+	
C5022	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	1		C2724	ECUM1C104ZFN	C. CAPACITOR CH 16V	0.10	1	
C5023, 24	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	2		02725	EEVHB1H2R2	E. CAPACITOR 50V	2. 20	1	
C5025	ECSTOJY106Z	T. CAPACITOR CH6. 3V 10U	1		C2726	ECUX1C473KBV	C. CAPACITOR CH 16V	0. 047U	1	
C5026	+	C. CAPACITOR CH 50V 1500P	1		C2727		C. CAPACITOR CH 16V		1	
C5027		C. CAPACITOR CH 50V 33P	1		C2728		C. CAPACITOR CH 10V		1	
		<del>                                       </del>	1				-		-	
C5028	+	C. CAPACITOR CH 50V 1200P			C2729		C. CAPACITOR CH 50V		<del> </del> '	
C5029	1	C. CAPACITOR CH 10V 1U	1		C2730		E. CAPACITOR 16V		+	
C5030		C. CAPACITOR CH 50V 1000P	1				E. CAPACITOR 50V		-	
C5031	ECUX1H103ZFV	C. CAPACITOR CH 50V 0. 01U	1		C2733, 34	ECUX1C473KBV	C. CAPACITOR CH 16V	0. 047U	2	
C5032	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1		C2735, 36	ECUM1C104ZFN	C. CAPACITOR CH 16V	0. 1U	2	
C5033		C. CAPACITOR CH 50V 680P	1	*	L	<b>+</b>	C. CAPACITOR CH 16V		+	1
C5034	+	C. CAPACITOR CH 50V 0. 01U	1		C2740		C. CAPACITOR CH 16V		+	<del> </del>
	1	· · · · ·	-						+-	<del> </del>
C5035		T. CAPACITOR CH 10V 10U	1				C. CAPACITOR CH 50V		3	
C5036, 37	+	T. CAPACITOR CH6. 3V 10U	2		C2745		C. CAPACITOR CH 50V		+	
C5038		C. CAPACITOR CH 50V 0.01U	1		C2747	ECUX1C474ZFN	C. CAPACITOR CH 16V		1	
C5047	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1		C2748	ECUX1H103ZFV	C: CAPACITOR CH 50V	0. 010	1	
C5051	ECUX1H103ZFV	C. CAPACITOR CH 50V 0.01U	1		C2749	ECUX1H332KBV	C. CAPACITOR CH 50V	3300P	1	
			Г		C2751	ECUX1C474ZFN	C. CAPACITOR CH 16V	0. <b>4</b> 7U	1	
FP5001	VJS3319B008	CONNECTOR (FEMALE)	1		C2752	1	C. CAPACITOR CH 50V		1	
FP5002	VJS3251	CONNECTOR (FEMALE)	1		C2753	<del> </del>	E. CAPACITOR 16V		₩-	
173002	V033231	CONNECTOR (FEMALE)	H						+	<b>.</b>
100001	11107045110		-		C2754	<del></del>	C. CAPACITOR CH 50V		+	
I C5001	AN3731FHQ	10	1		C2755	EEVHB1C100	E. CAPACITOR 16V		1	
					C2757	ECUX1C105ZFN	C. CAPACITOR CH 16V	10	1	
L5002, 03	VLQ0163K220	COIL 22UH	2		C2758, 59	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 01U	2	
L5005-07	ELJPA100KF	COIL 10UH	3		C2760	EEVHB1C100	E. CAPACITOR 16V	100	1	
				···	C2762	ECUX1H103ZFV	C. CAPACITOR CH 50V	0. 010	1	
Q5002, 03	2803937	TRANSISTOR	2				C. CAPACITOR CH 16V	10	1	
	2SD1938F	TRANSISTOR	2		C2764		C. CAPACITOR CH6. 3V		1	
45005, 00	23519301	TRANSTSTOR	-		1				1	
DEADO	ED 100EV0 474	W DECLOTED OU 4 (40W 470	-		C2766	<del> </del>	C. CAPACITOR CH 25V		<del>!                                      </del>	
R5002		M. RESISTOR CH 1/16W 470	1		C2767	l	C. CAPACITOR CH 16V		1	
R5003		M. RESISTOR CH 1/16W 10K	1		C2768	EEVHB1E4R7	E. CAPACITOR 25V	4. 7U	1	
R5004	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		C2769~71	ECUM1 C1 04ZFN	C. CAPACITOR CH 16V	0.10	3	
R5005	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		C2772-77	ECUX1C104KBV	C. CAPACITOR CH 16V	0. 1U	6	
R5010	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1		C2778-80	ECUX1H102KBV	C. CAPACITOR CH 50V	1000P	3	
R5012	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		C2781, 82	ECUX1H103KBV	C CARACITOR OU SOV	0 0411	<del></del>	
R5013	·	M. RESISTOR CH 1/16W 12K	1		<b>-</b>		U. CAPACITOR OF SUV	0. 01U	2	
	<u> </u>				C2783	EEVHB1C100			-	
	JENOUGE TUE / I	M RESISTOR OF 1/18W 270	2	1		· · · · · · · · · · · · · · · · · · ·	E. CAPACITOR 16V	100	1	
	ED. ISSEVATOR	M. RESISTOR CH 1/16W 270	2		C2784-87	ECUX1H103KBV	E. CAPACITOR 16V C. CAPACITOR CH 50V	10U 0. 01U	1 4	
	<del></del>	M. RESISTOR CH 1/16W 1K	2		C2784-87 C2788	ECUX1H103KBV EEVHB1C470	E. CAPACITOR 16V C. CAPACITOR CH 50V E. CAPACITOR 16V	10U 0, 01U 47U	1 4	
R5018	ERJ3GEYJ680	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68	1		C2784-87 C2788 C2789, 90	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV	E. CAPACITOR CH 50V C. CAPACITOR CH 50V E. CAPACITOR 16V C. CAPACITOR CH 50V	10U 0, 01U 47U 5600P	1 4 1 2	
R5018 R5019	ERJ3GEYJ680 ERJ3GEYJ123	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K	1		C2784-87 C2788 C2789, 90 C2791	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470	E. CAPACITOR 16V C. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V E. CAPACITOR 16V	10U 0. 01U 47U 5600P 47U	1 1 2 1	
R5018 R5019 R5020	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K	1		C2784-87 C2788 C2789, 90 C2791 C2792	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100	E. CAPACITOR 16V C. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V E. CAPACITOR 16V E. CAPACITOR 18V	10U 0, 01U 47U 5600P 47U 10U	1 4 1 2	
R5018 R5019	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K	1		C2784-87 C2788 C2789, 90 C2791 C2792	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100	E. CAPACITOR 16V C. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V E. CAPACITOR 16V	10U 0, 01U 47U 5600P 47U 10U	1 1 2 1	
R5018 R5019 R5020	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K	1 1		C2784-87 C2788 C2789, 90 C2791 C2792 C2793	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV	E. CAPACITOR 16V C. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V E. CAPACITOR 16V E. CAPACITOR 18V	10U 0, 01U 47U 5600P 47U 10U	1 4 1 2 1	
R5018 R5019 R5020 R5021	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10	1 1 1		C2784-87 C2788 C2789. 90 C2791 C2792 C2793 C2794	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0J225KBN	E. CAPACITOR 16V C. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V E. CAPACITOR 16V E. CAPACITOR 16V C. CAPACITOR CH 50V	10U 0. 01U 47U 5600P 47U 10U 0. 01U 2. 2U	1 4 1 2 1 1	
R5018 R5019 R5020 R5021 R5024 R5025	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 270	2 1 1 1 1		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0J225KBN ECUX1H332KBV	E. CAPACITOR 16V C. CAPACITOR CH 50V E. CAPACITOR 16V C. CAPACITOR 16V E. CAPACITOR 16V E. CAPACITOR 16V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V	10U 0. 01U 47U 5600P 47U 10U 0. 01U 2. 2U 3300P	1 4 1 2 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYORO0	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0	1 1 1 1 1		C2784-87 C2788 C2789, 90 C2791 C2792 C2793 C2794 C2795 C2796	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0J225KBN ECUX1H332KBV ECUX1H362KBV	E. CAPACITOR	10U 0. 01U 47U 5600P 47U 10U 0. 01U 2. 2U 3300P 5600P	1 4 1 2 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYJ0700 ERJ3GEYG152	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.0 M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K	1 1 1 1 1 1		C2784-87 C2788 C2789, 90 C2791 C2792 C2793 C2794 C2795 C2796 C2797	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0H225KBN ECUX1H332KBV ECUX1H562KBV ECUXH562KBV ECUM1C104ZFN	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V	10U 0. 01U 47U 5600P 47U 10U 0. 01U 2. 2U 3300P 5600P 0. 1U	1 4 1 2 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYORO0 ERJ3GEYG152 ERJ3GEYORO0	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0	1 1 1 1 1 1 4		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0J225KBN ECUX1H332KBV ECUX1H332KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR 16V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V	10U 0. 01U 47U 5600P 47U 10U 0. 01U 2. 2U 3300P 5600P 0. 1U 5600P	1 4 1 2 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYORO0 ERJ3GEYG152 ERJ3GEYORO0	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.0 M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K	1 1 1 1 1 1 4		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0J25KBN ECUX1H332KBV ECUX1H332KBV ECUX1H562KBV ECUM1C104ZFN ECUX1H562KBV ECUM1C104ZFN	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR 16V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V C. CAPACITOR CH 16V C. CAPACITOR CH 16V C. CAPACITOR CH 16V	10U 0.01U 47U 5600P 47U 1.0U 0.01U 2.2U 3300P 5600P 0.1U 5600P 0.1U	1 4 4 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 2 2 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 2700 M. RESISTOR CH 1/16W 2700 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	1 1 1 1 1 1 4		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0J225KBN ECUX1H332KBV ECUX1H332KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR 16V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V C. CAPACITOR CH 16V C. CAPACITOR CH 16V C. CAPACITOR CH 16V	10U 0. 01U 47U 5600P 47U 10U 0. 01U 2. 2U 3300P 5600P 0. 1U 5600P	1 4 1 2 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0	1 1 1 1 1 1 4		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0J225KBN ECUX1H332KBV ECUX1H562KBV ECUM1C104ZFN ECUX1H562KBV ECUM1C104ZFN ECUM1C104ZFN ECUM1C104ZFN ECUH1C104ZFN	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR 16V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V C. CAPACITOR CH 16V C. CAPACITOR CH 16V C. CAPACITOR CH 16V	10U 0.01U 47U 5600P 47U 0.01U 2.2U 3300P 5600P 0.1U 5600P 0.1U 47U	1 4 4 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 2 2 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 2700 M. RESISTOR CH 1/16W 2700 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	1 1 1 1 1 1 4		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02 C2803	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H103ZFV ECUX0J225KBN ECUX1H332KBV ECUX1H562KBV ECUM1C104ZFN ECUX1H562KBV ECUM1C104ZFN ECUM1C104ZFN ECUM1C104ZFN ECUH1C104ZFN	E. CAPACITOR	10U 0.01U 47U 5600P 47U 0.01U 2.2U 3300P 5600P 0.1U 5600P 0.1U 47U	11 4 11 11 11 11 11 11 12 2	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 2700 M. RESISTOR CH 1/16W 2700 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	1 1 1 1 1 1 4		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02 C2803 C2807.08	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 EEVHB1C100 ECUX1H503ZFV ECUX0J225KBN ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV	E. CAPACITOR	10U 0, 01U 47U 5600P 10U 0, 01U 2, 2U 3300P 5600P 0, 1U 5600P 0, 1U 47U 0, 01U 0, 01U 0, 01U	11 44 11 11 11 11 11 11 12 22 11	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYJ271 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 1 4 4 2		C2784-87 C2788 C2789, 90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2798 C2797 C2798 C2799, 00 C2801, 02 C2803 C2809	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H03ZFV ECUX0J225KBN ECUX1H03ZFV ECUX0J225KBN ECUX1H332KBV ECUX1H562KBV ECUM1C104ZFN ECUM1C104ZFN ECUM1C104ZFN ECUX1H762KBV ECUM1C104ZFN ECUX1H03ZFV EEVHP1HR47 ECUX1H03ZFV EEVHB1C100 EEVHB0J330	E. CAPACITOR	10U 0.01U 47U 5600P 47U 0.01U 2.2U 3300P 5600P 0.1U 47U 0.01U 47U 0.01U 33U 33U 33U 33U 33U 33U 33U 33U	1 4 4 1 1 1 1 1 1 1 1 1 1 2 2 1 1 2 2 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYJ271 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 1 4 4 2		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801,02 C2807.08 C2809 C2810	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H03ZFV ECUX0J225KBN ECUX1H03ZFV ECUX0J225KBN ECUX1H332KBV ECUX1H562KBV ECUM1C104ZFN ECUX1H562KBV ECUM1C104ZFN ECUX1H703ZFV EEVHP1HR47 ECUX1H03ZFV EEVHB1C100 EEVHB0J330 ECUX1C104KBV	E. CAPACITOR	10U 0. 01U 47U 5600P 47U 0. 01U 2. 2U 3300P 5600P 0. 1U 47U 0. 01U 10U 33U	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYJ271 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 1 4 4 2		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02 C2807 C2809 C2810	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H03ZFV ECUX1H03ZFV ECUX1H03ZFV ECUX1H03ZFW ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H103ZFV EEVHP1HR47 ECUX1H103ZFV EEVHB1C100 EEVHB0J330 ECUX1C104KBV EEVHB0J330	E. CAPACITOR	10U 0. 01U 47U 5600P 47U 0. 01U 2. 2U 3300P 5600P 0. 1U 47U 0. 01U 10U 33U 0. 1U	1 4 4 1 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYJ271 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 1 4 4 2		C2784-87 C2788 C2789.90 C2791 C2792 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02 C2803 C2807.08 C2810 C2811 C6301-06	ECUX1H103KBV EEVHB1C470 ECUX1H582KBV EEVHB1C470 EEUXH1103ZFV ECUX042Z5KBN ECUX1H332KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H03ZFV EEVHB103ZFV EEVHB1030 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUM1C104ZFN	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR G. 3V C. CAPACITOR CH 16V E. CAPACITOR CH 16V	10U 0.01U 47U 5600P 47U 2.2U 3300P 5600P 0.1U 47U 0.01U 47U 0.01U 33U 0.1U 33U 0.1U 33U 0.1U 33U 0.1U	1 4 1 1 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYJ271 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 1 4 4 2		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02 C2803 C2807.08 C2810 C2811 C6301-06 C6307	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H103ZFV ECUX01H103ZFV ECUX01H2562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV EEVHB103ZFV EEVHB03330 ECUX1C104KBV EEVHB10330 ECUM1C104ZFN EEVHB10470	E. CAPACITOR	10U 0, 01U 47U 5600P 47U 0, 01U 2, 2U 3300P 5600P 0, 1U 47U 0, 01U 10U 33U 0, 1U 33U 0, 1U	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYG152 ERJ3GEYJ100 ERJ3GEYJ103 ERJ3GEYJ271 ERJ3GEYJ271 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00 ERJ3GEYGR00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 1 4 4 2		C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02 C2803 C2807.08 C2810 C2811 C6301-06 C6307	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H103ZFV ECUX01H103ZFV ECUX01H2562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV EEVHB103ZFV EEVHB03330 ECUX1C104KBV EEVHB10330 ECUM1C104ZFN EEVHB10470	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR G. 3V C. CAPACITOR CH 16V E. CAPACITOR CH 16V	10U 0, 01U 47U 5600P 47U 0, 01U 2, 2U 3300P 5600P 0, 1U 47U 0, 01U 10U 33U 0, 1U 33U 0, 1U	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5025 R5026 R5028 R5029-32 R5040, 41	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ000 ERJ3GEYORO0 ERJ3GEYORO0 ERJ3GEYORO0	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 4 2	(RTL)	C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801,02 C2803 C2807.08 C2807 C2811 C6307 C6308-13	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H562KBV EEVHB1C100 ECUX1H362KBV ECUX1H362KBV ECUX1H362KBV ECUX1H362KBV ECUX1H562KBV ECUM1C104ZFN ECUX1H562KBV ECUM1C104ZFN EEVHB1R47 ECUX1H562KBV EEVHB1C100 EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUM1C104ZFN EEVHB1C470 ECUM1C104ZFN	E. CAPACITOR	10U 0, 01U 47U 5600P 47U 0, 01U 2, 2U 3300P 5600P 0, 1U 47U 0, 01U 10U 33U 0, 1U 33U 0, 1U	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5025 R5026 R5028 R5029-32 R5040, 41	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ000 ERJ3GEYORO0 ERJ3GEYORO0 ERJ3GEYORO0	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 4 2	(RTL)	C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801,02 C2803 C2807.08 C2807 C2811 C6307 C6308-13	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX01H562KBV ECUX0J225KBN ECUX1H332KBV ECUX1H332KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H1632FV ECUX1H103ZFV EVHB1C100 EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB1C470 ECUM1C104ZFN ECUM1C104ZFN ECUXHC104ZFN ECUXHC104KBV	E. CAPACITOR	10U 0.01U 47U 2.2U 3300P 5600P 0.1U 47U 0.01U 33U 0.1U 33U 0.1U 33U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 10U 33U 0.1U 33U 0.1U 47U 0.1U 47U 0.1U	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32 R5040, 41	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ000 ERJ3GEYORO0 ERJ3GEYORO0 ERJ3GEYORO0	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	2 1 1 1 1 1 1 1 4 2	(RTL)	C2784-87 C2788 C2789, 90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799 C2799 C2799 C2801, 02 C2807, 08 C2809 C2810 C2811 C8301-06 C6307 C6308-13 C6314-16	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C100 ECUX1H03ZFV ECUX0J225KBN ECUX1H132KBV ECUX1H362KBV ECUX1H562KBV ECUM1C104ZFN ECUM1C104ZFN ECUM1C104ZFN ECUHD1HR47 ECUX1H03ZFV EEVHB1C100 EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB1C470 ECUM1C104ZFN ECUM1C104ZFN ECUX1H00ZFV EVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV ECUM1C104ZFN ECUX1C104KBV ECUM1C104ZFN ECUX1C104KBV ECUX1C104KBV	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V C. CAPACITOR CH 16V	10U 0.01U 47U 5600P 47U 0.01U 2.2U 3300P 5600P 0.1U 5600P 0.1U 10U 33U 0.1U 47U 0.01U 33U 0.1U 47U 0.1U 47U 0.1U 47U	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32 R5040, 41	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ7103 ERJ3GEYJ7103 ERJ3GEYJ7103 ERJ3GEYOROO ERJ3GEYOROO ERJ3GEYOROO ERJ3GEYOROO	M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.0K M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 MISCELLANEOUS SHIELD CASE (A) MECHANISM DRIVE C. B. A.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801,02 C2807 C2809 C2810 C2811 C6307 C6308-13 C6314-16 C6317 C6318-27	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H03ZFV ECUX0J225KBN ECUX1H03ZFV ECUX0J225KBN ECUX1H362KBV ECUM1C104ZFN ECUM1C104ZFN ECUM1C104ZFN ECUX1H562KBV ECUM1C104ZFN ECVHD1HR47 ECUX1H03ZFV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J30 ECUX1C104ZFN ECUM1C104ZFN ECUX1C104ZFN ECUX1C104ZFN ECUX1C104ZFN ECUX1C104ZFN ECUX1C104ZFN ECUX1C104ZFN ECUX1C104ZFN ECUX1C104ZFN ECUX1C104ZFN	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V C. CAPACITOR CH 16V	10U 0.01U 47U 0.01U 33U 0.1U 47U 0.1U 0.1U 0.1U 0.1U 0.1U 0.1U 0.1U 0.1	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32 R5040, 41	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ7103 ERJ3GEYJ7103 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00	M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/1	2 1 1 1 1 1 1 1 1 4 2 2 1 1 1 1 1 1 1 1	(RTL)	C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02 C2803 C2807.08 C2809 C2810 C2811 C6307 C6308-13 C6314-16 C6317 C6318-27 C6328	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H03ZFV ECUX1H03ZFV ECUX1H03ZFV ECUX1H362KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H103ZFV EEVHP1HR47 EEVHP1HR47 EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104ZFN EEVHB1C470 ECUX1C104KBV	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V C. CAP	10U 0.01U 47U 2.2U 3300P 5600P 0.1U 5600P 0.1U 10U 33U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32 R5040, 41	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ7103 ERJ3GEYJ7103 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00	M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.0K M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0 MISCELLANEOUS SHIELD CASE (A) MECHANISM DRIVE C. B. A.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801,02 C2807 C2809 C2810 C2811 C6307 C6308-13 C6314-16 C6317 C6318-27	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H03ZFV ECUX1H03ZFV ECUX1H03ZFV ECUX1H362KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H103ZFV EEVHP1HR47 EEVHP1HR47 EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104ZFN EEVHB1C470 ECUX1C104KBV	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V C. CAPACITOR CH 16V	10U 0.01U 47U 0.01U 33U 0.1U 47U 0.1U 0.1U 0.1U 0.1U 0.1U 0.1U 0.1U 0.1	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R5018 R5019 R5020 R5021 R5024 R5025 R5026 R5028 R5029-32 R5040, 41	ERJ3GEYJ680 ERJ3GEYJ123 ERJ3GEYJ152 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ7103 ERJ3GEYJ7103 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00 ERJ3GEYOR00	M. RESISTOR CH 1/16W 68 M. RESISTOR CH 1/16W 12K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 10K M. RESISTOR CH 1/16W 270 M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 1.5K M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W M. RESISTOR CH 1/1	2 1 1 1 1 1 1 1 1 4 2 2 1 1 1 1 1 1 1 1	(RTL)	C2784-87 C2788 C2789.90 C2791 C2792 C2793 C2794 C2795 C2796 C2797 C2798 C2799.00 C2801.02 C2803 C2807.08 C2809 C2810 C2811 C6307 C6308-13 C6314-16 C6317 C6318-27 C6328	ECUX1H103KBV EEVHB1C470 ECUX1H562KBV EEVHB1C470 ECUX1H03ZFV ECUX1H03ZFV ECUX1H03ZFV ECUX1H362KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H562KBV ECUX1H103ZFV EEVHP1HR47 EEVHP1HR47 EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104KBV EEVHB0J330 ECUX1C104ZFN EEVHB1C470 ECUX1C104KBV	E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 50V C. CAPACITOR CH 16V E. CAPACITOR CH 16V E. CAPACITOR CH 16V C. CAP	10U 0.01U 47U 2.2U 3300P 5600P 0.1U 5600P 0.1U 10U 33U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U 47U 0.1U	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

DESCRIPTION   CALLED TO SERVE   CONTINUE OF 1   1   1   1   1   1   1   1   1   1	D. C. N.	Desa No	Dant Name & Desemintiat	,,,	Remarks F	Ref No	Part No	Part Name & Description	o <sub>cs</sub>	Remarks
				CS						
SECOND   CALLESTON   CALLEST	C6502	ECUX1H102KBV		-1		66514	UNITT4. VI	10		- · · · ·
	C6504	EEVHB1C470	E. CAPACITOR 16V 47U	1					_	
Section   Countricities   Capacitics   Cap	C6505	ECUX1C224ZFV	C. CAPACITOR CH 16V 0. 22U	1	к	(2701, 02	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	2	
BORNON   CONTINUES   1907   1909	C6506	ECUM1C104ZFN	C. CAPACITOR CH 16V . O. 1U	1		1				
MATERIAL   Material				i		2701, 02	VLQ0599J680	COIL 68UH	2	
Description   Control Contro				1						
DISTRICT   ELEMENT   ELE				-		P2702	VI DO1 45	COLL	1	T
Design   Commonweal   Design   Commonweal   Design   Commonweal   Design   Commonweal   Design   Design   Commonweal   Design					<b>╶</b>	BZ 102	VLF0143	COTE		
Page   Page	C6511.12	EEVHB1H3R3	E. CAPACITOR 50V 3. 3U	2					_	<del></del>
Page   Company   C6513	EEVHB1C100	E. CAPACITOR 16V 10U	-1	P	2701, 02	VJS3813B017	CONNECTOR (FEMALE)	2		
Section   Countricy   Conducting Residual    C6515	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	1	P	2703	VJS3319B009	CONNECTOR (FEMALE)	1		
				3		2704	VJS3406B019	CONNECTOR (FEMALE)	1	
Decision   Properties   Company   Properties   Properti				$\rightarrow$				CONNECTOR (MALE)	1	
Control   Cont				-					·	****
Section   Control Court   Control Court   Co	C6520	EEVHB1H3R3	E. CAPACITOR 50V 3.3U	_1						ļ
	C6522	EEVHB1C100	E. CAPACITOR 16V 10U	1	Р	6303	VJP3518B003	CONNECTOR (MALE)	_	
BOSS23   ECUNTA (SOME) CAPACITOR ON 197 100   1	C6523-26	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	4	Р	6501	VJP3518B002	CONNECTOR (MALE)	_1	
				1	P	6502	VJP4044A002	CONNECTOR (MALE)	1	
				-			V.IP3172D002	CONNECTOR (MALE)	1	
P6505   MASSTRORED   CARACITER OF 100   1				-1					_	
PRINCIPATION   COMPANT FOR PILE FOR 1	C6530	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	_11						
Deciding	C6531	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	-1	P	6505	VJ\$3537B032	CONNECTOR (FEMALE)	1	<u> </u>
P6507   Maria (1908)   Convention (20 of 1)   P6507   Maria (1908)   Convention (20 of 1)   P6508   Maria (1908)   Maria (19				1	l P	6506	VJP3125B002	CONNECTOR (MALE)	_ 1	
Decision   Control   Con				-			VJP31720002	CONNECTOR (MALE)	1	
Section   Continue									_	
December   Comparison   Compa	C6537	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	_1					_	
Decision   Decision	C6538	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	1	[] P	6510	VJP3172D002	CONNECTOR (MALE)	1	
Decomposition				1	1 P	6514	VJP3172D004	CONNECTOR (MALE)	_ 1	1
Search   Committed Search   Co			0.						1	
COMMAND   CAMPACTING PI SEY   0. U   4						3020				<del> </del>
							0001655	TRANSLOTOR		<del> </del>
Design	C6544-47	ECUM1C104ZFN	C. CAPACITOR CH 16V 0. 1U	4						<del></del>
DOSSES   ECWINICID CAPPA   C. CAPACITOR CH 18Y	C6552-55	ECUM1C104ZFN	C. CAPACITOR CH 16V 0.1U	4		22703, 04	MSD601-R	TRANSISTOR	2	
CORSSS   COLMICIONAZE   CAPACITOR (H SPV 0.19   1				2		26301	MSD601-R	TRANSISTOR	1	
Design								TRANSISTOR	1	
December   December										<del> </del>
December   December	C6559	EEVHB1C100		-					<u> </u>	
D2713-16   MA856	C6565, 66	EEVHB0J220	E. CAPACITOR 6.3V 22U	2		26304	2SB1073	TRANSISTOR	- 1	
						26305	MSD601-R	TRANSISTOR	1	
	D2713-16	MAR56	DIODE	4		26306	2SB1073	TRANSISTOR	1	
DeSign				_				TRANSISTOR	1	T
DESIGN									-	<del> </del>
D8310	D6301	MA4051-L	DIODE	_1		06308	MSD601-R			<del>                                     </del>
DB311   MA043L   D10DE	D6302-09	AK04	DIODE	8		06502	2SB709A	TRANSISTOR	_1	
D8311	06310	MA142WK	DIODE	1		06503	2SB1073	TRANSISTOR	- 1	
D0312-15   ARO40				1		06504	2SB710	TRANSISTOR	1	
DB316   MA1429K   D100E   1									1	<del></del>
D8317   MA4043L   D100E	D6312-15			_		26505	2381073	TRANSTSTOR		<del> </del>
Design   D	D6316	MA142WK	DIODE	1						
DESCI	D6317	MA4043L	DIODE	1		QR6301-03	XN1112	TRANSISTOR-RESISTOR	3	<u>                                     </u>
D6501   AK04	D6318-34	MA142WK	DIODE	17		QR6304, 05	MUN2213	TRANSISTOR-RESISTOR	2	!
DESCRIPTION   DIODE   2   DR8314-16   MIN2213   TRANSISTOR-RESISTOR   3   DR8311   MA7211   MA7211   MA7211   MA7211   MA7211   MARASISTOR-RESISTOR   1   DR8312   MA8083-H   DIODE   1   DR8313   MA8039-H   DIODE   1   DR8313   MARASISTOR-RESISTOR   1   DR8513   MARASISTOR-RESISTOR   1   DR8514   MARASISTOR-RESISTOR   1   DR8513   MARASISTOR-RESISTOR   1   DR8514   MARASISTOR-RESISTOR   1   DR8514   MARASISTOR-RESISTOR   1   DR8515   MARASISTOR-RESISTOR   1   DR8517   MARASISTOR   1   DR8517   MARASISTOR-RESISTOR   1   DR8517   MARASISTOR   1   DR8517   MARASISTOR-RESISTOR   1   MARASISTOR-RESISTOR   1   DR8517   MARASISTOR-RESISTOR   1   DR8517   MARASISTOR-RESISTOR						OR6306-09	XN1213	TRANSISTOR-RESISTOR	- 4	
DESTI				_					3	1
DESIZE   MARROQ2-H   DIODE   1				_					_	
DESTIX   MARROSS   MARRO	D6511	MA721WK	DIODE	1						
102701   NJM2903M   C	D6512	MA8062-H	DIODE	1		QR6318	XN4213	TRANSISTOR-RESISTOR	1	
	D6513	MA8039-H	DIODE	1		QR6502	MUN2213	TRANSISTOR-RESISTOR	1	
102701   NJM2903M						QR6503	MUN2212	TRANSISTOR-RESISTOR	1	1
102707	100701	N INGOOOTI	10	-					1	
102702   04A9834K   10   2   0R6511   MUN2113   TRANSISTOR-RESISTOR   1   1   1   1   1   1   1   1   1										
1   1   1   1   1   1   1   1   1   1									_	
1   1   1   1   1   1   1   1   1   1	102703, 04	AN3834K	10	2					-	
IC2706   NJM2903M   IC	102705	UPC4558G2	10	_1]		QR6514	MUN2113		-	
IC2707   NJM2904M	102706	NJM2903M	IC	1		QR6515	MUN2213	TRANSISTOR-RESISTOR	_1	,
102708   T86519F   10				1		QR6517	MUN2213	TRANSISTOR-RESISTOR	1	
R2701   R2310   TRANSISTOR   1					<del></del>			1	Т	
102710   PU3110   TRANSISTOR   1   R2703. 04   ERJ3GEYJ562   M. RESISTOR CH 1/16W   5. 6K   2				_		20704	ED IODDDOGG	H PECLETOD ON OW CZY	۲.	
	102709	PU3210	TRANSISTOR	_					H.	
R2711   PU3210   TRANSISTOR   1   R2705   ERJ3GEYG152   M. RESISTOR CH 1/16W   1.5K   1	102710	PU3110	TRANSISTOR	1		R2703, 04	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	_2	2
102712   PU3110   TRANSISTOR   1				1	T F	R2705	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	
102714   NJM2903M   IC   1   R2707   RRJ3GEYJ331   M. RESISTOR CH 1/16W   330   1				_					1	
R2710   R2710   R2710   R2710   R2710   R2710   R2710   R2711   R2710   R2712   R2710   R2711   R2710   R2712   R2710   R2712   R2710   R2712   R2710   R2712   R2710   R2713   R2714   R2713   R2713   R2713   R2713   R2713   R2713   R2713   R2714   R2713   R271									H	.†
108301-03 BA6219BFF-Y   10   3   R2711   ERJ3RB0823   M. RESISTOR CH 3W 82K 1   108304   UP04538B6   10   1   R2712   ERJ3RB0153   M. RESISTOR CH 3W 15K 1   1   1   1   1   1   1   1   1   1									<del>- '</del>	
1	102715	NJM2904M	10	1	F	R2710	ERJ3RBD473		L	1
1	106301-03	BA6219BFP-Y	lic T	3	l F	R2711	ERJ3RBD823	M. RESISTOR CH 3W 82K	_1	J
R2713   R2713   R2713   R2713   R2713   R2713   R2713   R2714   R2715   R2716   R2716   R2716   R2717   R2718   R271			lic -	1	F	R2712	ERJ3RBD153	M. RESISTOR CH 3W 15K	1	-
106306   UPD4538B6   IC									1	1
Teston   T									<u> </u>	
1   R2717   R2717   R2717   R2717   R2717   R2717   R2717   R2718	<del> </del> -								-	
106504 05 UPC455862   1C   2   R2718   ERJ3GEYG472   M. RESISTOR CH 1/16W   4. 7K   1   1   1   1   1   1   1   1   1	106501, 02	BA6887-V3	IC I	2					<del>-</del>	·
1   1   1   1   1   1   1   1   1   1	106503	NJM2904M	IC	1		R2717	ERJ14YK2R2	M. RESISTOR CH 1/4W 2.2	1	1
106506-08 NJM2903M		-	IC	2	F	R2718	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	
C6509, I			· · · · · · · · · · · · · · · · · · ·	_					1	1
R2723   R2724   R2724   R2724   R2724   R2725   R2725   R2726   R272				_					T,	3
108512   M66010GP   10   1   R2724   ERJ3GEYG472   M. RESISTOR CH 1/16W 4. 7K   1										
10012 11001001 10	I C6511	UPC4558G2	10	1		R2723	ERJ14YK2R2		-	<u> </u>
	106512	M66010GP	IC	1	] [ ]	R2724	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	L1	
, ·				1	1	R2725	ERJ3GEYG393	M. RESISTOR CH 1/16W 39K	1	
	10000			Ė	<del></del>				Ι	
		-		-	-				$\vdash$	<del> </del>
	L			L.	L			l	<u></u>	<u> </u>

Ref. No.	Part No.	Part Name & Description	Por	Remarks	Ref. No.	Part No.	Part Name & Descri	intio	D.	s Remarks
			_	Remarks					_	
	ERJ14YJ330	M. RESISTOR CH 1/4W 33	2		R6311	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R6312, 13	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 OK	_2	
R2730	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6314	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R2731	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1		R6315	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	_1	
R2732	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1		R6316, 17	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K	2	
R2733	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6318	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	
R2734	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	-	R6319	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R2735		M. RESISTOR CH 1/16W 15K	1		R6320	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	
R2736	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		R6321	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	<b>†</b>
							<del> </del>		_	
R2737	+	M. RESISTOR CH 1/16W 27K				ERJ3GEYJ394	M. RESISTOR CH 1/16W	390K	2	
R2738		M. RESISTOR CH 1/16W 1M	_1		R6324-29	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	6	
R2739	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6330	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 OK	1	
R2740	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R6331, 32	ERJ3GEYG472	M. RESISTOR CH 1/16W	4. 7K	2	
R2741	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1	·	R6333	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 OK	1	, and the second
R2742	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K	1		R6334	ERJ3GEYJ151	M. RESISTOR CH 1/16W	150	1	
R2743	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R6335	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R2744	ERJ3GEYG222	M. RESISTOR CH 1/16W 2.2K	<u></u>		R6336	<del></del>	M. RESISTOR CH 1/16W	2. 2K	H	
	<del>                                     </del>		-							
R2745	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	- 1		R6337	-	M. RESISTOR CH 1/16W	22K	_ 1	
R2747	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6338		M. RESISTOR CH 1/16W	4. 7K	1	
R2748	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R6339		M. RESISTOR CH 1/16W	150	1	
R2749	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1		R6340	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 OK	1	
R2750	ERJ3GEYJ561	M. RESISTOR CH 1/16W 560	1		R6341	ERJ3GEYJ272	M. RESISTOR CH 1/16W	2. 7K	1	
R2751	ERJ8GEYJR33	M. RESISTOR CH 1/8W 0.33	1		R6342		M. RESISTOR CH 1/16W	4. 7K	1	
R2752	ERJ8GEYJR47	M. RESISTOR CH 1/8W 0, 47	1		R6343	ERJ3GEYJ151	M. RESISTOR CH 1/16W	150	1	
R2753	ERJ3GEYG472	<del> </del>	1		R6344			10K	1	
		<del> </del>					M. RESISTOR CH 1/16W		_	
	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	_3		R6345	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R2757	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R6346	ERJ3GEYJ272	M. RESISTOR CH 1/16W	2. 7K	1	
R2758	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6347-49	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	3	
R2760	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R6501	ERJ3RBD123	M. RESI-STOR CH 3W	12K	1	
R2761	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6502	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K	1	
R2762	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1		R6503	ERJ3GEYG154	M. RESISTOR CH 1/16W	150K	1	
R2763	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1		R6504		M. RESISTOR CH 1/16W	39K	1	
R2764	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	-			M. RESISTOR CH 1/4W	100	1	
		<del> </del>			R6505	ERJ14YJ101			_	
R2765	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R6506		M. RESISTOR CH 1/16W	2. 7K	1	
R2766	ERJ3GEYG392	M. RESISTOR CH 1/16W 3.9K	_1		R6507	ERJ3GEYJ334	M. RESISTOR CH 1/16W	330K	1	
R2768	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R6508	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1. 2K	_1	
R2769	ERJ3RBD153	M. RESISTOR CH 3W 15K	1		R6509	ERJ3RBD332	M. RESISTOR CH 3W	3. 3K	1	
R2770	ERJ3RBD823	M. RESISTOR CH 3W 82K	1		R6510	ERJ3RBD153	M. RESISTOR CH 3W	15K	1	
R2771	ERJ3RBD473	M. RESISTOR CH 3W 47K	1		R6511		M. RESISTOR CH 1/16W	180	1	
R2772	ERJ3RBD102	M. RESISTOR CH 3W 1K	1		R6512		M. RESISTOR CH 3W	15K	1	
	ERJ14YK2R2	M. RESISTOR CH 1/4W 2.2	2					11K	1	
					R6513		M. RESISTOR CH 3W			
R2775		M. RESISTOR CH 3W 27K	_1		R6514		M. RESISTOR CH 1/16W	1 OK	1	
		M. RESISTOR CH 1/16W 82K	1		R6515	ERJ14YK3R9	M. RESISTOR CH 1/4W	3. 9	1	
R2778	ERJ3GEYG912	M. RESISTOR CH 1/16W 9.1K	1		R6516-18	ERJ3GEYG102	M. RESISTOR CH 1/16W	1 K	3	
R2779	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	1		R6519	ERJ3RBD472	M. RESISTOR CH 1/10W	4. 7K	1	
R2780, 81	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2		R6520	ERJ3GEYJ823	M. RESISTOR CH 1/16W	82K	1	
R2782	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6521		M. RESISTOR CH 1/16W	2. 7K	1	
		M. RESISTOR CH 1/16W 68K	1		R6524	ERJ14YK5R6	M. RESISTOR CH 1/4W	5. 6	1	
									<u> </u>	
		M. RESISTOR CH 1/16W 4. 7K	1				M. RESISTOR CH 1/16W	1K	3	
		M. RESISTOR CH 1/16W 1.5K	1		R6529		M. RESISTOR CH 1/16W	0	1	
			_1		R6530		M. RESISTOR CH 1/16W	10K	1	
		M. RESISTOR CH 1/16W 220	1		R6532		M. RESISTOR CH 1/16W	10K	1	
R2789	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R6533, 34	ERJ3RED184	M. RESISTOR CH 3W	180K	2	
R2790	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		R6535	ERJ3GEYG123	M. RESISTOR CH 1/16W	12K	1	
R2791	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1		R6536		M. RESISTOR CH 3W	36K	1	
		M. RESISTOR CH 1/16W 39K	1		R6537, 38		M. RESISTOR CH 1/16W	22K	2	
		M. RESISTOR CH 1/16W 220	i	-	R6541		M. RESISTOR CH 1/16W	6. 8K	1	
		M. RESISTOR CH 1/16W 10K	il			ERJ3RBD103			-	
			_		R6542			10K		
		M. RESISTOR CH 1/16W 1K	-1		R6543	ERJ3RBD392	M. RESISTOR CH 3W	3, 9K	_1	
		M. RESISTOR CH 3W 82K	_1				M. RESISTOR CH 1/16W	27K	1	
		M. RESISTOR CH 3W 1K	1		R6545	ERJ3RBD104	M. RESISTOR CH 3W	100K	1	
R2799	ERJ3GEYG154	M. RESISTOR CH 1/16W 150K	1		R6546	ERJ3RBD103	M. RESISTOR CH 3W	1 OK	1	
R2800	ERJ8RQJR27	M. RESISTOR CH 1/8W 0.27	1		R6547	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 OK	1	
		M. RESISTOR CH 1/16W 22K	2		R6548		M. RESISTOR CH 1/16W	220	1	
		M. RESISTOR CH 1/16W 1K	1		R6549			1. 2K	1	
			1						_	
					R6550			6. 8K	1	
		M. RESISTOR CH 1/16W 0	1		R6551		M. RESISTOR CH 1/16W	10K	1	
		M. RESISTOR CH 1/16W 33K	1		R6552		M. RESISTOR CH 1/16W	180K	1	-
R2807	ERJ3GEYG563	M. RESISTOR CH 1/16W 56K	1		R6553, 54	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 OK	2	
R2808	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1		R6555	ERJ3GEYJ184	M. RESISTOR CH 1/16W	180K	1	
R6301	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		R6556, 57	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 OK	2	
		M. RESISTOR CH 1/4W 560	1		R6558		M. RESISTOR CH 1/16W	180K	1	
		M. RESISTOR CH 1/16W 10K	5				M. RESISTOR CH 1/16W	10K	2	
		M. RESISTOR CH 1/16W 47K	1		R6561				4	
			$\rightarrow$				M. RESISTOR CH 1/16W	180K		
ROJUH, 10	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	2		K6562, 63	ERJ3GEYJ103	M. RESISTOR CH 1/16W	1 0K	2	
			_				ļ			
			[							

Ref. No.									
	Part No.	Part Name & Description	Pcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc:	s Remarks
R6564		M. RESISTOR CH 1/16W 1M	_		D7502	MA165	DIODE	1	
			<del>                                     </del>		D7503-08		DIODE	6	
R6565		M. RESISTOR CH 1/16W 0						-	· · · · · · · · · · · · · · · · · · ·
R6566	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		D7509, 10	LN31GCPHLMU	LED	2	
R6567	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		D7511, 12	LN376GCPXUY	DIODE	2	!
R6568	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		D7513, 14	LN48YCPL	DIODE	2	2
R6569		M. RESISTOR CH 1/16W 10K	1		D7515, 16		DIODE	2	1
			÷				DIODE	1	
R6570	ļ	M. RESISTOR CH 1/16W 1M	<u> </u>					<del> </del> -	
R6571	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		D7518	MA4056-H	DIODE	1	
R6572	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1						
R6573	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		DP 7501	VSL0512	DISPLAY	1	
R6574	· <del> </del>	M. RESISTOR CH 1/16W 0	1						
	<del> </del>		1		I C7501	M35500AFP	IC	1	
R6575	ERJ3RBD182	M. RESISTOR CH 3W 1.8K						<u> </u>	
R6576, 77	ERJ3RBD223	M. RESISTOR CH 3W 22K	2			S80743AL	IC	1	
R6578-80	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	3		107503	M66010GP	IC	1	
R6581-86	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	6		107504	BA6810F	IC .	1	
	<del>                                     </del>	M. RESISTOR CH 1/16W 2.2K	3		107505	RN5RZ38BA	IC	1	
-		M. RESISTOR CH 1/16W 10K	1						
R6590	<del></del>		-		17504	1// 00500 1000	2011	١,	
R6592	<del></del>	M. RESISTOR CH 1/16W 10K	1	<u> </u>	L7501	VLQ0599J220	COIL 22UH	1	
R6593, 94	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	2						
R6595	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		LB7501-04	VLP0147	COIL	4	
R6596		M. RESISTOR CH 1/16W · 1.2K	1			-			
R6597			Ė	<u> </u>	P7501	VJS3537B017	CONNECTOR (FEMALE)	1	
			H				CONNECTOR (FEMALE)	1	<del>                                     </del>
R6598		M. RESISTOR CH 1/16W 6.8K	1					-	<del>                                     </del>
R6599	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		P7503 C	VJP1231T	CONNECTOR (MALE) 4P	1	
R6600	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	1	P7503	VJS1231T	CONNECTOR (FEMALE)	1	<u>                                      </u>
R6602	ERJ14YK3R3	M. RESISTOR CH 1/4W 3.3	1		P7504	VJS2183	CONNECTOR (FEMALE)	1	
			2			VJS1231T	CONNECTOR (FEMALE)	1	
	ERJ14YK5R6	M. RESISTOR OH 1/4W 5.6			1 7001	,5012011	JOHN TEMPLE	⊢'	<del>                                     </del>
R6607		M. RESISTOR CH 1/16W 10K	1					<del> </del>	<del> </del>
R6611-13	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		QR7501-16	MUN2112	TRANSISTOR-RESISTOR	16	
R6614	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		QR7517-19	MUN2111	TRANSISTOR-RESISTOR	3	:l1
R6615-17	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3		QR7520-23	UN211F	TRANSISTOR-RESISTOR	4	
R6618		M. RESISTOR CH 1/16W 22K	1					1	
K0010	ERJ3GETJ223	M. RESISTOR ON 17 1611 22K	_		22501 00	EDD0070	0.05010700 1/49 0	-	-
					R7501, 02		C. RESISTOR 1/4W 0	_	
\$6501	VSP1054	SWITCH	1		R7503, 04	ERD\$2TJ132	C. RESISTOR 1/4W 1.3K	2	
\$6502	VSP1055	SWITCH	1		R7505	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
\$6503	VSP1054	SWITCH	1		R7506	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
\$6504	VSS0512	SWITCH	1				M. RESISTOR CH 1/10W 100K	1	
30304	V330312	SHITON	Ľ					+	
TP2701-04	VJR0098	TEST POINT	4	i L	R7511-16	ERJ6GEYG303	M. RESISTOR CH 1/10W 30K	6	
TP6501-05	VJR0098	TEST POINT	5		R7520-24	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	5	5
					R7526	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
VP2701 02	EVMECSA00B12	V. RESISTOR 100	2		R7528		M. RESISTOR CH 1/10W 220	1	
	+		-				M. RESISTOR CH 1/10W 220	3	,
VR6501	EVMECSA00B24							-	
VR6502	EVMECSA00B54	V. RESISTOR 50K	1		R7542	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	1	
l					R7543-46	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	4	1
	1	MISCELLANEOUS			R7555-62	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	8	s  <b> </b>
					R7563	ERJ6GEYG272	M. RESISTOR CH 1/10W 2.7K	1	
⊢	VM ISSUMOSOM	FLAT CARD CABLE	1				M. RESISTOR CH 1/10W 47K	2	
			H						
	VWJ32HW080MM	FLAT CARD CABLE	_1						
<b></b>							M. RESISTOR CH 1/10W 1K	1	
1					R7567	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
					R7567	ERJ6GEYG223	<del></del>	1	
					R7567 R7569-72	ERJ6GEYG223 ERJ6GEYG221	M. RESISTOR CH 1/10W 22K	1 4	
					R7567 R7569-72 R7573	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K	1 4	
					R7567 R7569-72 R7573	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K	1 4	
					R7567 R7569-72 R7573 R7574	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K	1 4 1 1	
	VEP07977A	TIMER C. B. A.	1	(RTL)	R7567 R7569-72 R7573 R7574	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K COMBI. R-R 100K	1 4 1 1	
	VEP07977A	TIMER C. B. A.	1	(RTL)	R7567 R7569-72 R7573 R7574	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K	1 4 1 1	
	VEP07977A	TIMER C. B. A.	1	(RTL)	R7567 R7569-72 R7573 R7574	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K COMBI. R-R 100K	1 4 1 1	
				(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K	1 4 1 1	
C7501	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K COMBI. R-R 100K	1 4 1 1 2 1	
C7501 C7502	ECUM1H103ZFN ECEA1HKS100	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 10U	1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503	ERJ66EYG223 ERJ66EYG221 ERJ66EYG103 ERJ66EYG102 EXBF6E104J EXBF8E104J VSP1053	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C7501 C7502 C7508, 09	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 10U C. CAPACITOR CH 50V 100P	1 1 2	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C7501 C7502	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 10U C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P	1 1 2 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C7501 C7502 C7508, 09	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 10U C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P	1 1 2 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C7501 C7502 C7508, 09 C7510 C7512	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA1HKS2R2	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 10U C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR 50V 2. 2U	1 1 2 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J VSP1053 EVNCYAA03B53	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K	1 1 1 1 1	
C7501 C7502 C7508, 09 C7510 C7512 C7513, 14	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA1HKS2R2 ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR SOV 10U C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR 50V 2. 2U C. CAPACITOR CH 50V 0. 1U	1 1 2 1 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J VSP1053 EVNCYAA03B53 VJF1331 VMD0504	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K  FIP HOLDER  LED HOLDER	1 1 1 1 1 1 6	
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR 50V 2. 2U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR 6. 3V 100U	1 1 2 1 1 2	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJF1331 VMD0504 VMX1932	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED SPACER	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 100U C. CAPACITOR CH 50V 100U C. CAPACITOR CH 50V 22P E. CAPACITOR 50V 2. 2U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR 6. 3V 100U C. CAPACITOR CH 50V 0. 01U	1 1 2 1 1 2 1 2	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJF1331 VMD0504 VMX1932	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K  FIP HOLDER  LED HOLDER	1 1 1 1 1 1 6	
C7501 C7502 C7508, 09 C7510 C7512 C7513, 14 C7515 C7516, 17 C7518, 19	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECEAUM1H103ZFN ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 10UP C. CAPACITOR CH 50V 10UP C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR 6. 3V 100U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U	1 1 2 1 1 2 2 2	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJF1331 VMD0504 VMX1932	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C7501 C7502 C7508, 09 C7510 C7512 C7513, 14 C7515 C7516, 17 C7518, 19	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECEAUM1H103ZFN ECUM1H103ZFN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 100U C. CAPACITOR CH 50V 100U C. CAPACITOR CH 50V 22P E. CAPACITOR 50V 2. 2U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR 6. 3V 100U C. CAPACITOR CH 50V 0. 01U	1 1 2 1 1 2 2 2	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJF1331 VMD0504 VMX1932	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED SPACER	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C7501 C7502 C7508, 09 C7510 C7512 C7513, 14 C7515 C7516, 17 C7518, 19	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H20JCN ECEA1HKS2R2 ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR 50V 10UP C. CAPACITOR CH 50V 10UP C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR 6. 3V 100U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U	1 1 2 1 1 2 1 2 2 2 2	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJF1331 VMD0504 VMX1932	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C7501 C7502 C7508, 09 C7510 C7512 C7513, 14 C7515 C7516, 17 C7518, 19 C7520, 21 C7522	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 10U C. CAPACITOR CH 50V 10OP C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 047U C. CAPACITOR CH 50V 0. 1U	1 1 2 1 1 2 2 2 2 1 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJGGEYG223 ERJGGEYG221 ERJGGEYG103 ERJGGEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VMD0504	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER  MISCELLANEOUS	1 1 1 1 1 6 6 6 6	
C7501 C7502 C7508, 09 C7510 C7512 C7513, 14 C7515 C7516, 17 C7518, 19 C7520, 21 C7522 C7523	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H20JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR SOV 10U C. CAPACITOR CH 50V 10OP C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U	1 1 2 1 2 1 2 2 2 2 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJF1331 VMD0504 VMX1932	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH  V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER	1 1 1 1 1 6 6 6 6	
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7523 C7524	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECUM1H103ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H04ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR SOV 10U C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR SOV 2. 2U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR 6. 3V 100U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 22U C. CAPACITOR CH 50V 0. 22U	1 1 2 1 1 2 2 2 2 2 1 1 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJGGEYG223 ERJGGEYG221 ERJGGEYG103 ERJGGEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VMD0504	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER  MISCELLANEOUS	1 1 1 1 1 6 6 6 6	
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7522 C7523	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECEA0JKS200	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR 50V 2. 2U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 22U C. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR 25V 4. 7U	1 1 2 1 1 2 2 2 2 1 1 1 1 2 2 2 2	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJGGEYG223 ERJGGEYG221 ERJGGEYG103 ERJGGEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VMD0504	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER  MISCELLANEOUS	1 1 1 1 1 6 6 6 6	
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7523 C7524	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECEA0JKS200	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR SOV 10U C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR SOV 2. 2U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR 6. 3V 100U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 22U C. CAPACITOR CH 50V 0. 22U	1 1 2 1 1 2 2 2 2 1 1 1 1 2 2 2 2	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJGGEYG223 ERJGGEYG221 ERJGGEYG103 ERJGGEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VMD0504	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER  MISCELLANEOUS	1 1 1 1 1 6 6 6 6	
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7522 C7523	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECUM1H103ZFN ECUM1H103ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H23ZFN ECUM1H2473ZFN ECUM1H2473ZFN ECUM1H2473ZFN ECEA1EKS4R7	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR 50V 2. 2U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 22U C. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR 25V 4. 7U	1 1 2 1 2 2 2 1 1 1 2 2 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJGGEYG223 ERJGGEYG221 ERJGGEYG103 ERJGGEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VMD0504	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER  MISCELLANEOUS	1 1 1 1 1 6 6 6 6	
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7523 C7524 C7525. 26	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECUM1H103ZFN ECUM1H103ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H23ZFN ECUM1H2473ZFN ECUM1H2473ZFN ECUM1H2473ZFN ECEA1EKS4R7	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 100U C. CAPACITOR CH 50V 100U C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR 25V 4. 7U E. CAPACITOR 16V 10U	1 1 2 1 2 2 2 1 1 1 2 2 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501, 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509, 10	ERJGGEYG223 ERJGGEYG221 ERJGGEYG103 ERJGGEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VMD0504	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER  MISCELLANEOUS	1 1 1 1 1 6 6 6 6	
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7523 C7524 C7525. 26 C7527 C7528	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA0HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H104ZFN ECUM1H104ZFN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 21U E. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U	1 1 2 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501. 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509. 10 ZB7511-16	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VM00504 VEE0C27	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER LED HOLDER LED HOLDER MISCELLANEOUS  CABLE	1 1 1 1 1 1 1 1 1 6 6	P7601-P7503
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7523 C7524 C7525. 26	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECEA1HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H103ZFN ECUM1H103ZFN ECUM1H103ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H104ZFN ECUM1H23ZFN ECUM1H2473ZFN ECUM1H2473ZFN ECUM1H2473ZFN ECEA1EKS4R7	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 100U C. CAPACITOR CH 50V 100U C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR 25V 4. 7U E. CAPACITOR 16V 10U	1 1 2 1 2 2 2 1 1 1 2 2 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501. 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509. 10 ZB7511-16	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VM00504 VEE0C27	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER  LED HOLDER  LED HOLDER  LED HOLDER  MISCELLANEOUS	1 1 1 1 1 6 6 6 6	P7601-P7503
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7523 C7524 C7525. 26 C7527 C7528	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA0HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H104ZFN ECUM1H104ZFN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 21U E. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U	1 1 2 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501. 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509. 10 ZB7511-16	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VM00504 VEE0C27	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER LED HOLDER LED HOLDER MISCELLANEOUS  CABLE	1 1 1 1 1 1 1 1 1 6 6	P7601-P7503
C7501 C7502 C7508. 09 C7510 C7512 C7513. 14 C7515 C7516. 17 C7518. 19 C7520. 21 C7522 C7523 C7524 C7525. 26 C7527 C7528	ECUM1H103ZFN ECEA1HKS100 ECUM1H101JCN ECUM1H220JCN ECEA0HKS2R2 ECUM1H104ZFN ECEA0JKS101 ECUM1H104ZFN ECUM1H104ZFN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN ECUM1H20JCN	C. CAPACITOR CH 50V 0. 01U E. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 100P C. CAPACITOR CH 50V 22P E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 22U E. CAPACITOR CH 50V 0. 21U E. CAPACITOR CH 50V 0. 1U C. CAPACITOR CH 50V 0. 1U E. CAPACITOR CH 50V 0. 1U	1 1 2 1 2 2 2 1 1 1 1 2 2 1 1 1 1 1 1 1	(RTL)	R7567 R7569-72 R7573 R7574 RX7501. 02 RX7503 S7501 VR4004 ZB7501 ZB7503-08 ZB7509. 10 ZB7511-16	ERJ6GEYG223 ERJ6GEYG221 ERJ6GEYG103 ERJ6GEYG102 EXBF6E104J EXBF8E104J VSP1053 EVNCYAA03B53 VJJF1331 VMD0504 VMX1932 VM00504 VEE0C27	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 220 M. RESISTOR CH 1/10W 10K M. RESISTOR CH 1/10W 1K  COMBI. R-R 100K  SWITCH V. RESISTOR 5K  FIP HOLDER LED HOLDER LED HOLDER MISCELLANEOUS  CABLE	1 1 1 1 1 1 1 1 1 6 6	P7601-P7503

Ref. No.	Part No.	Part Name & Description	rP^	Remarks	Ref. No.	Part No.	Part Name & Descriptio	r D -	s Remarks
MEL. NO.	Talt No.	rait Name & Description	II C	Kelliat KS	R4805	1	M. RESISTOR CH 1/10W 220	_	
			+				· <del> </del>		·
0.1051			+	<del>  </del>	R4806	ERJ6RBD471	M. RESISTOR CH 1/10W 470	+-	
C4851		C. CAPACITOR CH 50V 0.1U	-	·	R4807	1	M. RESISTOR CH 1/10W 0	+	
	<del></del>	C. CAPACITOR CH 50V 470P	+		R4808	ERJ6RBD162	M. RESISTOR CH 1/10W 1.6K	-	
		C. CAPACITOR CH 50V 0.1U	-			ERJ6RBD101	M. RESISTOR CH 1/10W 100	+	
C4856	<del>,</del>	E. CAPACITOR 6. 3V 47U	-		R4811	ERJ6RBD162	M. RESISTOR CH 1/10W 1.6K	+	
C4857	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		R4812	ERJ6RBD471	M. RESISTOR CH 1/10W 470	1	
					R4813	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	i L
D4851, 52	MA165	DIODE	2		R4814	ERJ6RBD162	M. RESISTOR CH 1/10W 1.6K	1	·
	<u> </u>	<u> </u>			R4815	ERJ6RBD471	M. RESISTOR CH 1/10W 470	1	
IR4851	RPM6937-V11	REMOTE CONTROL RECEIVER	1		R4816	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
-					R4817	ERJ6RBD101	M. RESISTOR CH 1/10W 100	1	
JK4851	VEJ1801	JACK	1						
		1	T		\$4801-06	EVQ11407K	SWITCH	6	
K4851	VWJ0119	JUMPER	1					ř	
	7	2.	Ė		VR4801	EVJYM0F15C23	V. RESISTOR 2K	1	
LB4851, 52	2 VI DO1 45	COIL	2		VR4802			1	-
LB4031, 32	2 VLF 0143	COIL	+-			EWANYJX1054J	<del> </del>	₩.	
DAGE	V 1005070000	CONFICE (CENT)	١.	<u> </u>	VR4803	EVJ021F1554J	V. RESISTOR 1. 55M	1	
P4851	VJS3537B022G	CONNECTOR (FEMALE)	1					┡	
D/07: -	ED 10	N ====================================	-		ZB4801	VGU7650	VOLUME KNOB	1	<del> </del>
	4	M. RESISTOR CH 1/10W 75	-		ZB4802, 03		REC LEVEL KNOB	2	
		M. RESISTOR CH 1/10W 100	2		ZB4804	VGU7652	MIC KNOB	1	
R4856	ERDS2TJ470	C. RESISTOR 1/4W 47	1		ZB4805	VMD2326	REFLECTOR	1	
R4857	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1		ZB4806	VKM3673	REC VOL PLATE	1	
R4858	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	1		ZB4807	VGF0208	REC VR SHEET	1	
			Ė		ZB4808	VGF0740	VC SHEET	1	·
\$4851	EVQ11407K	SWITCH	1					ť	
\$4852	ESD170306	SWITCH	+			<u> </u>			
S4853	VSR0221	SWITCH	1						
0 1000	TOROLLI	0	<del>  '</del>					⊢	
ZB4851	VMD2247	INEDA HOLDED	1			ļ			
	· · · · · · · · · · · · · · · · · · ·	INFRA HOLDER	<u> </u>			VEDOTES:	HODIN AD O 5 :	-	(071)
ZB4852	VGU7654	SLIDE KNOB	1			VEP07966A	MODULAR C. B. A.	1	(RTL)
ZB4853	VGU7652	MIC KNOB	1						
ZB4854	VGF0740	VC SHEET	1						
	ļ		<u> </u>		JK7601	VJJ0587	4P MODULAR JACK	1	
								L	
			L		P7601	VJP1231T	CONNECTOR (MALE) 4P	1	
							MISCELLANEOUS		-
	VEP04696D	FRONT (R) C. B. A.	1	(RTL)				-	
	VEP04696D	FRONT (R) C. B. A.	1	(RTL)		VWY1021		-	
	VEP04696D	FRONT (R) C. B. A.	1	(RTL)		VMX1021	LOCKING SPACER	1	
				(RTL)		VMX1021		1	
C4801, 02	ECUM1H103ZFN	C. CAPACITOR CH 50V 0.01U	2	(RTL)		VMX1021		1	
C4801, 02 C4803, 04	ECUM1H103ZFN ECUX1H223KBN	C. CAPACITOR CH 50V 0. 01U C. CAPACITOR CH 50V 0. 22U	2	(RTL)		VMX1021		1	
C4801, 02 C4803, 04 C4805	ECUM1H103ZFN ECUX1H223KBN ECEA1CKA330	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U	2 2	(RTL)		VMX1021		1	
C4801. 02 C4803. 04 C4805 C4806	ECUM1H103ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U	2 2 1	(RTL)			LOCKING SPACER		
C4801, 02 C4803, 04 C4805 C4806 C4807	ECUM1H103ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3 ECUM1H472KBN	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P	2 2 1	(RTL)					(RTL)
C4801, 02 C4803, 04 C4805 C4806 C4807	ECUM1H103ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P	2 2 1	(RTL)			LOCKING SPACER		(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808	ECUM1H103ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3 ECUM1H472KBN ECEA1AKA330	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P	2 2 1 1 1	(RTL)			LOCKING SPACER		(RTL)
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11	ECUM1H103ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3 ECUM1H472KBN ECEA1AKA330 ECUM1H104ZFN	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P E. CAPACITOR 10V 33U	2 2 1 1 1	(RTL)	D7751	VEP07965A	LOCKING SPACER		(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812	ECUM1H103ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3 ECUM1H472KBN ECEA1AKA330 ECUM1H104ZFN ECUM1H104ZFN	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P E. CAPACITOR CH 50V 33U C. CAPACITOR CH 50V 0.1U	2 1 1 1 1 3	(RTL)		VEP07965A	LOCKING SPACER  FRONT LED C. B. A.	1	(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813	ECUMI H 1 0 3 Z F N ECUX I H 2 2 3 K B N ECEA 1 CKA 3 3 0 ECEA 1 EKS 3 R 3 ECUMI H 4 7 Z K B N ECEA 1 A K A 3 3 0 ECUMI H 1 0 4 Z F N ECUMI H 1 0 4 Z F N ECUMI H 1 0 4 Z F N	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P E. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U	2 1 1 1 1 3	(RTL)	D7751 D7752, 53	VEP07965A  LN01301C LN01801C	FRONT LED C.B.A. DIODE	1	(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813	ECUMI H 1 0 3 Z F N ECUX 1 H 2 2 3 K B N ECEA 1 CKA 3 3 0 ECEA 1 EKS 3 R 3 ECUMI H 4 7 Z K B N ECEA 1 A K A 3 3 0 ECUMI H 1 0 4 Z F N ECUMI H 1 0 4 Z F N ECUMI H 1 0 4 Z F N ECUMI H 1 0 3 Z F N ECUMI H 1 0 3 Z F N	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR CH 50V 4700P C. CAPACITOR CH 50V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U	2 2 1 1 1 1 3 1	(RTL)	D7751 D7752, 53	VEP07965A  LN01301C LN01801C	LOCKING SPACER  FRONT LED C. B. A.  DIODE	1 2	(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813	ECUMI H 1 0 3 Z F N ECUX 1 H 2 2 3 K B N ECEA 1 CKA 3 3 0 ECEA 1 EKS 3 R 3 ECUMI H 4 7 Z K B N ECEA 1 A K A 3 3 0 ECUMI H 1 0 4 Z F N ECUMI H 1 0 4 Z F N ECUMI H 1 0 4 Z F N ECUMI H 1 0 3 Z F N ECUMI H 1 0 3 Z F N	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P E. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U	2 2 1 1 1 1 3 1	(RTL)	D7751 D7752, 53 D7754	VEP07965A  LN01301C  LN01301C	FRONT LED C.B.A.  DIODE DIODE DIODE	1 2 1	(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816	ECUMIHIO3ZFN ECUXIH223KBN ECEAICKA330 ECEAIEKS3R3 ECUMIH172KBN ECEAIAKA330 ECEAIMH104ZFN ECUMIHIO3ZFN ECUMIHIO3ZFN ECUMIHIO3ZFN ECUMIHIO4ZFN	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR CH 50V 4700P E. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U	2 2 1 1 1 1 3 1 1 2	(RTL)	D7751 D7752, 53 D7754	VEP07965A  LN01301C LN01801C LN01301C VJP1244T	LOCKING SPACER  FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P	1 2 1	(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15	ECUMIHIO3ZFN ECUXIH223KBN ECEAICKA330 ECEAIEKS3R3 ECUMIH172KBN ECEAIAKA330 ECEAIMH104ZFN ECUMIHIO3ZFN ECUMIHIO3ZFN ECUMIHIO3ZFN ECUMIHIO4ZFN	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR CH 50V 4700P C. CAPACITOR CH 50V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U	2 2 1 1 1 1 3 1	(RTL)	D7751 D7752, 53 D7754	VEP07965A  LN01301C LN01801C LN01301C VJP1244T	FRONT LED C.B.A.  DIODE DIODE DIODE	1 2 1	(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816	ECUMIH103ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3 ECUMIH472KBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH103ZFN ECUMIH103ZFN ECUMIH104ZFN LN476YCPX4	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 25V 3.3U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U DIODE	2 2 1 1 1 1 3 1 1 1	(RTL)	D7751 D7752, 53 D7754	VEP07965A  LN01301C LN01801C LN01301C VJP1244T	LOCKING SPACER  FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P	1 2 1	(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816	ECUMIHIO3ZFN ECUXIH223KBN ECEAICKA330 ECEAIEKS3R3 ECUMIH172KBN ECEAIAKA330 ECEAIMH104ZFN ECUMIHIO3ZFN ECUMIHIO3ZFN ECUMIHIO3ZFN ECUMIHIO4ZFN	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR CH 50V 4700P E. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U	2 2 1 1 1 1 3 1 1 2	(RTL)	D7751 D7752, 53 D7754	VEP07965A  LN01301C LN01801C LN01301C VJP1244T	LOCKING SPACER  FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P	1 2 1	(RTL)
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816 D4801	ECUMI H103ZFN ECUXI H223KBN ECEA1 CKA330 ECUMI H47ZKBN ECEA1 EKA333 ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN LN476YCPX4 VCR0172	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U D. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U DIODE	2 2 1 1 1 1 3 1 1 2 1	(RTL)	D7751 D7752, 53 D7754	VEP07965A  LN01301C LN01801C LN01301C VJP1244T	LOCKING SPACER  FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P	1 2 1	(RTL)
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816	ECUMI H1 03ZFN ECUXI H223KBN ECEA1 CKA330 ECUMI H47ZKBN ECEA1 AKA330 ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN LN476YCPX4 VCR01 72	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 25V 3.3U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U DIODE	2 2 1 1 1 1 3 1 1 1	(RTL)	D7751 D7752, 53 D7754	VEP07965A  LN01301C LN01801C LN01301C VJP1244T	LOCKING SPACER  FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P	1 2 1	(RTL)
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  IC4801	ECUMI H103ZFN ECUXI H223KBN ECEA1 CKA330 ECEA1 EKS3R3 ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN ECUMI H104ZFN UNTERPORT OF THE COMMINION	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR CH 50V 4700P E. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE	2 2 1 1 1 1 3 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS3537B0096	LOCKING SPACER  FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P	1 2 1	(RTL)
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801	ECUMIH103ZFN ECUXIH223KBN ECEA1CKA330 ECEA1EKS3R3 ECUMIH47ZKBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH104ZFN ECUMIH104ZFN ECUMIH104ZFN UNA76YCPX4 VCR0172 VEE0E94	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C.	2 2 1 1 1 1 3 1 1 2 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752	VEP07965A  LN01301C LN01801C LN01301C VJP1244T	LOCKING SPACER  FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P	1 2 1	(RTL)
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801	ECUMI H1 03ZFN ECUX 1 H223KBN ECEA1 CKA330 ECEA1 EKS3R3 ECUMI H47ZKBN ECEA1 AKA330 ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN VGR01 72 VEE0E94 VJJ0284	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR CH 50V 4700P E. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE	2 2 1 1 1 1 3 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS3537B0096	FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE)  4P CONNECTOR (FEMALE)	1 2 1 1 1 1	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801	ECUMIH103ZFN ECUXIH223KBN ECEA1CKA330 ECEA1EKS3R3 ECUMIH47ZKBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH104ZFN ECUMIH104ZFN ECUMIH104ZFN UNA76YCPX4 VCR0172 VEE0E94	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C.	2 2 1 1 1 1 3 1 1 2 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS3537B0096	FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE)  4P CONNECTOR (FEMALE)	1 2 1 1 1 1	
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816  D4801  JA1  JK4801 JK4802	ECUM1H103ZFN ECUX1H223KBN ECEA1CKA330 ECUM1H472KBN ECEA1AKA330 ECUM1H104ZFN ECUM1H103ZFN ECUM1H103ZFN ECUM1H103ZFN ECUM1H104ZFN VCR0172 VEE0E94 VJJ0264 VJJ0264	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR CH 50V 4700P C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C.	2 2 1 1 1 1 3 1 1 2 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS3537B009G  ,	FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE)  4P CONNECTOR (FEMALE)	1 2 1 1 1 1	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802  L4801, 02	ECUM1H103ZFN ECUX1H223RBN ECEA1CKA330 ECUM1H47ZKBN ECEA1AKA330 ECUM1H104ZFN ECUM1H103ZFN ECUM1H104ZFN ECUM1H104ZFN LN476YCPX4 VCR0172 VEE0E94 VJJ0264 VJJ0263 VLQ0599J221	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C.	2 2 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS3537B009G  ,	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.	1 2 1 1 1 1	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802  L4801, 02	ECUMIH103ZFN ECUX1H223RBN ECEA1CKA330 ECEA1EKS3R3 ECUMIH47ZKBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH104ZFN ECUMIH104ZFN LN476YCPX4 VCR0172 VEE0E94 VJJ0264 VJJ0263 VLQ0599J221	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 10V 4700P E. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V FROM 0.1U C. CAPACITOR CH 50V CO.1U C. CAPA	2 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS353780096  ,  VEP07968B  ECKF1H103ZF	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.	1 2 1 1 1 1	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802 L4801, 02 L4803, 04	ECUMIH103ZFN ECUX1H223RBN ECEA1CKA330 ECEA1EKS3R3 ECUMIH47ZKBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH104ZFN ECUMIH104ZFN LN476YCPX4 VCR0172 VEE0E94 VJJ0264 VJJ0263 VLQ0599J221	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 10V 4700P E. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V FROM 0.1U C. CAPACITOR CH 50V CO.1U C. CAPA	2 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS353780096  ,  VEP07968B  ECKF1H103ZF	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U	1 2 1 1 1 2 2	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802 L4801, 02 L4803, 04	ECUMI H1 03ZFN ECUX 1 H223KBN ECEA1 CKA330 ECUA1 H47ZKBN ECEA1 EKS3R3 ECUMI H1 04ZFN ECUMI H1 03ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN UNTERPROPER ECUMI H1 04ZFN UNTERPROPER ECUMI H1 04ZFN UNTERPROPER UNTERPROPER VEROE94 VJJ0284 VJJ0284 VJJ0283 VL00599J221 VL00599J471	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE  HEADPHONE JACK MIC JACK  COIL 220UH COIL 470UH	2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 2 2 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS3537B009G  VEP07968B  ECKF1H1032F  MA4056-H	FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0.01U DIODE	1 2 1 1 1 2 2 2	
C4801. 02 C4803. 04 C4805 C4806 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816  D4801  JA1  JK4801 JK4801 JK4802  L4801. 02 L4803. 04  LB4801	ECUMIHIO3ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3 ECUMIH472KBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH104ZFN ECUMIH104ZFN VCR0172 VEE0E94 VJJ0264 VJJ0264 VJJ0263 VL00599J221 VL00599J471	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR 10V 0.1U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE  HEADPHONE JACK MIC JACK  COIL 220UH COIL	2 2 1 1 1 1 1 3 3 1 1 1 2 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02	VEP07965A  LN01301C  LN01801C  LN01301C  VJP1244T  VJS3537B0096  VEP07968B  ECKF1H1032F  MA4056-H	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U	1 2 1 1 1 2 2	
C4801. 02 C4803. 04 C4805 C4806 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816  D4801  JA1  JK4801 JK4801 JK4802  L4801. 02 L4803. 04  LB4801	ECUMIHIO3ZFN ECUX1H223KBN ECEA1CKA330 ECEA1EKS3R3 ECUMIH472KBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH104ZFN ECUMIH104ZFN VCR0172 VEE0E94 VJJ0264 VJJ0264 VJJ0263 VL00599J221 VL00599J471	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE  HEADPHONE JACK MIC JACK  COIL 220UH COIL 470UH	2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 2 2 2 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701	VEP07965A  LN01301C LN01801C LN01301C  VJP1244T  VJS3537B009G  VEP07968B  ECKF1H1032F  MA4056-H  VLP0196	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE COIL	1 1 1 1 1 1 2 2 2 1 1	
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816  D4801  JA1  JK4801 JK4801 JK4802  L4801. 02 L4803. 04  LB4801	ECUMIH103ZFN ECUX1H23KBN ECEA1CKA330 ECUMIH472KBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH103ZFN ECUMIH104ZFN CUMIH103ZFN ECUMIH103ZFN ECUMIH103ZFN VCR0172 VEE0E94 VJJ0264 VJJ0264 VJJ0263 VL00599J221 VL00599J471 VLP0145 VJS353780206	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U E. CAPACITOR 25V 3.3U C. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE  HEADPHONE JACK MIC JACK  COIL 220UH COIL CONNECTOR (FEMALE)	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701	VEP07965A  LN01301C LN01801C LN01301C  VJP1244T  VJS3537B0096  VEP07968B  ECKF1H1032F  MA4056-H  VLP0196  VJR1044	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE  CONNECTOR CONNECTOR CONNECTOR SOV 0. 01U	1 1 2 1 1 2 2 1 1 1	
C4801. 02 C4803. 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814. 15 C4816  D4801  JA1  JK4801 JK4801 JK4802  L4801. 02 L4803. 04  LB4801	ECUMIH103ZFN ECUX1H23KBN ECEA1CKA330 ECUMIH472KBN ECEA1AKA330 ECUMIH104ZFN ECUMIH103ZFN ECUMIH103ZFN ECUMIH104ZFN CUMIH103ZFN ECUMIH103ZFN ECUMIH103ZFN VCR0172 VEE0E94 VJJ0264 VJJ0264 VJJ0263 VL00599J221 VL00599J471 VLP0145 VJS353780206	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR 10V 0.1U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE  HEADPHONE JACK MIC JACK  COIL 220UH COIL	2 2 1 1 1 1 1 3 3 1 1 1 2 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701	VEP07965A  LN01301C LN01801C LN01301C  VJP1244T  VJS3537B0096  VEP07968B  ECKF1H1032F  MA4056-H  VLP0196  VJR1044	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE COIL	1 1 1 1 1 1 2 2 2 1 1	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4801 JK4802  L4801, 02 L4803, 04  LB4801  P4801  QR4801	ECUMI H1 03ZFN ECUX1 H223KBN ECEA1 EKS3R3 ECUMI H47ZKBN ECEA1 EKS3R3 ECUMI H1 04ZFN ECUMI H1 03ZFN ECUMI H1 03ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN VCR01 72 VEE0E94 VJJ0264 VJJ0263 VLQ0599J221 VLQ0599J271 VLP01 45 VJS3537B020G UN211F	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE  HEADPHONE JACK MIC JACK COIL 220UH COIL CONNECTOR (FEMALE)  TRANSISTOR-RESISTOR	2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701	VEP07965A  LN01301C LN01801C LN01301C  VJP1244T  VJS353780096  VEP07968B  ECKF1H1032F  MA4056-H  VLP0196  VJR1044  VJS1231T	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE  COIL CONNECTOR (FEMALE)	1 1 2 1 1 2 2 1 1 1	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802  L4801, 02 L4803, 04  LB4801  P4801  QR4801  R4801	ECUMI H1 03ZFN ECUX 1 H2 23KBN ECEA1 CKA330 ECEA1 EKS3R3 ECUMI H1 72KBN ECEA1 AKA330 ECUMI H1 04ZFN ECUMI H1 03ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN ECUMI H1 04ZFN LN476YCPX4 VCR01 72 VEE0E94 VJJ0263 VL00599J221 VL00599J471 VLP01 45 VJS353780206 UN211F ERJ66EYF 472	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE  HEADPHONE JACK MIC JACK  COIL 220UH COIL  CONNECTOR (FEMALE)  TRANSISTOR-RESISTOR  M. RESISTOR CH 1/10W 4.7K	2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701	VEP07965A  LN01301C LN01801C LN01301C  VJP1244T  VJS353780096  VEP07968B  ECKF1H1032F  MA4056-H  VLP0196  VJR1044  VJS1231T	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE  CONNECTOR CONNECTOR CONNECTOR SOV 0. 01U	1 1 2 1 1 2 2 1 1 1	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802  L4801, 02 L4803, 04 LB4801  P4801  QR4801  R4801  R4801  R4802	ECUMI H103ZFN ECUX 1H223KBN ECEA1 CKA330 ECEA1 EKS3R3 ECUMI H104ZFN ECUMI H103ZFN ECUMI H103ZFN ECUMI H104ZFN ECUMI H103ZFN ECUMI H104ZFN ECUMI H103ZFN ECUMI H104ZFN UN476YCPX4 VE0E94 VJJ0264 VJJ0264 VJJ02683 VL00599J221 VL00599J471 VLP0145 VJS3537B020G UN211F ERJ66EYF472 ERJ66EYF682	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR 10V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACIT	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701 P7751	VEP07965A  LN01301C LN01801C LN01301C VJP1244T VJS3537B0096  VEP07968B  ECKF1H1032F MA4056-H VLP0196 VJR1044 VJS1231T	FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE  COIL  CONNECTOR (FEMALE)  MISCELLANEOUS	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802  L4801, 02 L4803, 04 LB4801  P4801  QR4801  R4801  R4801  R4802	ECUMI H103ZFN ECUX 1H223KBN ECEA1 CKA330 ECEA1 EKS3R3 ECUMI H104ZFN ECUMI H103ZFN ECUMI H103ZFN ECUMI H104ZFN ECUMI H103ZFN ECUMI H104ZFN ECUMI H103ZFN ECUMI H104ZFN UN476YCPX4 VE0E94 VJJ0264 VJJ0264 VJJ02683 VL00599J221 VL00599J471 VLP0145 VJS3537B020G UN211F ERJ66EYF472 ERJ66EYF682	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.1U DIODE  IC FRONT (R) CABLE  HEADPHONE JACK MIC JACK  COIL 220UH COIL  CONNECTOR (FEMALE)  TRANSISTOR-RESISTOR  M. RESISTOR CH 1/10W 4.7K	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701 P7751	VEP07965A  LN01301C LN01801C LN01301C VJP1244T VJS3537B0096  VEP07968B  ECKF1H1032F MA4056-H VLP0196 VJR1044 VJS1231T	FRONT LED C. B. A.  DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE  COIL CONNECTOR (FEMALE)	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802  L4801, 02 L4803, 04 LB4801  P4801  QR4801  R4801  R4801  R4802	ECUMI H103ZFN ECUX 1H223KBN ECEA1 CKA330 ECEA1 EKS3R3 ECUMI H104ZFN ECUMI H103ZFN ECUMI H103ZFN ECUMI H104ZFN ECUMI H103ZFN ECUMI H104ZFN ECUMI H103ZFN ECUMI H104ZFN UN476YCPX4 VE0E94 VJJ0264 VJJ0264 VJJ02683 VL00599J221 VL00599J471 VLP0145 VJS3537B020G UN211F ERJ66EYF472 ERJ66EYF682	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR 10V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACIT	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701 P7751	VEP07965A  LN01301C LN01801C LN01301C VJP1244T VJS3537B0096  VEP07968B  ECKF1H1032F MA4056-H VLP0196 VJR1044 VJS1231T	FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE  COIL  CONNECTOR (FEMALE)  MISCELLANEOUS	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)
C4801, 02 C4803, 04 C4805 C4806 C4807 C4808 C4809-11 C4812 C4813 C4814, 15 C4816  D4801  JA1  JK4801 JK4802  L4801, 02 L4803, 04 LB4801  P4801  QR4801  R4801  R4801  R4802	ECUMI H103ZFN ECUX 1H223KBN ECEA1 CKA330 ECEA1 EKS3R3 ECUMI H104ZFN ECUMI H103ZFN ECUMI H103ZFN ECUMI H104ZFN ECUMI H103ZFN ECUMI H104ZFN ECUMI H103ZFN ECUMI H104ZFN UN476YCPX4 VE0E94 VJJ0264 VJJ0264 VJJ02683 VL00599J221 VL00599J471 VLP0145 VJS3537B020G UN211F ERJ66EYF472 ERJ66EYF682	C. CAPACITOR CH 50V 0.01U C. CAPACITOR CH 50V 0.22U E. CAPACITOR 16V 33U C. CAPACITOR 150V 4700P E. CAPACITOR 10V 33U C. CAPACITOR 10V 33U C. CAPACITOR 10V 0.1U C. CAPACITOR CH 50V 0.1U C. CAPACIT	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)	D7751 D7752, 53 D7754 P7751 P7752  C7701, 02 D7701, 02 LB7701 P7751	VEP07965A  LN01301C LN01801C LN01301C VJP1244T VJS3537B0096  VEP07968B  ECKF1H1032F MA4056-H VLP0196 VJR1044 VJS1231T	FRONT LED C. B. A.  DIODE DIODE DIODE CONNECTOR (MALE) 4P CONNECTOR (FEMALE)  IR C. B. A.  C. CAPACITOR 50V 0. 01U  DIODE  COIL  CONNECTOR (FEMALE)  MISCELLANEOUS	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(RTL)

			_				***	_	
Ref. No.	Part No.	Part Name & DescriptionP	cs	Remarks	Ref. No.	Part No.	Part Name & Description	Pc:	s Remarks
	VEE0E95	CABLE	1		<b>⚠</b> F1101	XBA2C16TH15	FUSE	1	
					101101	STRM6559LF	IC	1	
<u> </u>	-		$\dashv$			HA17431PA	IC	1	
<b> </b>			$\dashv$		101102			m	
l			-		A ID1101	VSF0015A10	IC PROTECTER	1	
					<u> </u>	V3F0013A10	TO PROTEOTER	H	
	VEP03E18A	5P JACK C. B. A.	1	(RTL)				<b>-</b>	
					<u> </u>		LINE FILTER	2	
					L1107	VLQ0655K220	COIL 22UH	1	
JK3781	VJJ0567	5P SOCKET	1		L1121, 22	VLQ0655K220	COIL 22UH	2	:
					L1123, 24	ELESE101KA	COIL 100UH	2	!
P3781	VJP1244T	CONNECTOR (MALE) 4P	1						
1070			$\dashv$		LB1103. 04	VLP0083	COIL	2	
					LB1105	VLP0085	COIL	1	
			-			72, 0000	0012	H	
	****				A D4404	V 100000	CONNECTOR: (FEMALE)	1	
			_		<u> </u>	VJS3306			
					P1102	VJP1239T	CONNECTOR (MALE)		<del></del>
•	VEP07967A	DV JACK C. B. A.	1	(RTL)		<u> </u>			
					<u> </u>	PC123FY2	PHOTO COUPLER	1	
i "									
JK7651	VJJ0568	DV JACK	1		R1101	ERC12AGM334	S. RESISTOR 1/2W 330K	1	
			$\exists$		R1102		M. RESISTOR 1W 39K	1	
07051	VJP1246T	CONNECTOR (MALE) 6P	1	<del>18 10 1 1</del>	R1105		C. RESISTOR 1/2W 3.9M	1	<u> </u>
P7651	YUF 12401	CONTROTOR (MALE) OF	-		R1105		C. RESISTOR 1/2W 4. 7M	1	
			$\dashv$					1	
			4		R1107			<u> </u>	
			_		R1108		C. RESISTOR 1/4W 100	1	
					R1109	ERDS2FJ152	C. RESISTOR 1/4W 1.5K	1	
					R1110	ERDS2FJ103	C. RESISTOR 1/4W 10K	1	
	VEP01814A	POWER SUPPLY C. B. A.	1	(RTL)	R1111	ERDS2FJ331	C. RESISTOR 1/4W 330	1	
					R1112	ERDS2FJ471	C. RESISTOR 1/4W 470	1	
					R1113	ERX1\$JR82E	M. RESISTOR 1W 0.82	1	
A 01101-03	ECKMWS102MEF	C. CAPACITOR 1000P	3		R1114	ERDS2FJ222	C. RESISTOR 1/4W 2.2K	1	
			_				C. RESISTOR 1/4W 2. 7	1	
	ECKD2H101KB		1		R1115			Η,	
⚠ C1105, 06	ECQU2A154MVA		2		R1116	EROS2CKG2701		<del>                                     </del>	
C1107	ECEC2GG121HZ	E. CAPACITOR 400V 120U	1		R1117	EROS2CKG6201		1	
C1108	ECCZ3A121KGE	C. CAPACITOR 1KV 120P	1		R1118	ERDS2TJ272	C. RESISTOR 1/4W 2. 7K	1	
C1109	ECKD2H103PU	C. CAPACITOR 500V 0. 01U	1		R1119	EROS2CKG2701	M. RESISTOR 1/4W 2.7K	1	i
C1110	ECAOGXLV331	E. CAPACITOR 4V 330U	1		R1121	ERDS2TJ271	C. RESISTOR 1/4W 270	1	
C1111		C. CAPACITOR 50V 1000P	1		R1122	ERDS2TJ561	C. RESISTOR 1/4W 560	1	
	ECQB1H822JF		1					ı	
C1112			١		<u> </u>	VLT0915	TRANSFORMER	1	, <del>                                    </del>
C1113		P. CAPACITOR 630V 0.1U	-		25 11101	VE10010	Trouter ortalest	┯	
C1114	ECA1VXLV470		<u>!</u>		711101 00	7000074 51	SUCE OF ID	١,	
C1116		E. CAPACITOR 10V 3300U	1			TP00351-51	FUSE CLIP	2	
01117	EEUFA1A102	E. CAPACITOR 10V 1000U	1		ZA1103	VSC4205	SHIELD CASE	1	
C1118	ECQV1H104JM	P. CAPACITOR 50V 0.1U	1		ZA1104, 05	VSC3434	SHIELD CASE	2	
C1121	EEUFA1E222	E, CAPACITOR 25V 2200U	1		ZA1107	VSC4259	HEAT SINK	1	
C1122	EEUFA1E102B	E. CAPACITOR 25V 1000U	1		ZA1108	VMP4717	AC PLATE	1	
C1123	ECKD2H101KB	G. CAPACITOR 500V 100P	1		ZA1109	VHD0418	SCREW	_1	Ц <u></u>
	EEUFA1A332		1		ZA1110, 11	XTN3+8G	SCREW	2	2
			1			XTN3+10G	SCREW	1	
	ECKD2H101KB		<u> </u>			· <del>-</del>		Γ	
			_		<u> </u>	VM72212	CAPACITOR COVER	2	,
					/\ ZB1101, 02	VMZ2212	BARRIER		
<u> </u>	ECKF1H103ZF		1		417 TR1104	VMC2012	DVKLIEV	⊢'	1
C1129	ECKD2H101KB		1		<u> </u>			⊢	
			1		<u> </u>			$\vdash$	
C1131	ECKF1H103ZF		1				1	ļ.,	
01132	ECKD2H101KB	C. CAPACITOR 500V 100P	1		L			L	
C1133			1		1			1	
	ECQB1H103JF		2						
51104,00		20, 0.010		AMAN .				Τ	
D1100	01WD4000	DIODE	1			<del> </del>		t	
D1102	S1WBA60S	DIODE	_		<u> </u>			+-	<del></del>
D1103	AP01C	DIODE	1			<del> </del>		+	
D1104	MA185	DIODE	1		1			$\vdash$	
D1105	MA700	DIODE	1				1.00	L	
D1106	MA4200-H	DIODE	1			L		1	
D1107	1SS254	DIODE	1		L			L	
D1108, 09		DIODE	2					1	
D1110	RD100E	DIODE	1			1		Τ	
D1121	RL4ZP	DIODE	1				~~	1	1
			_		· <del> </del>	<del>                                     </del>		t	<del>                                     </del>
D1122	F5KQ60	DIODE	1		<b></b>	<del>                                     </del>		$\vdash$	
D1123, 24		DIODE	2		<u> </u>	<del> </del>		-	<del> </del>
D1125	11EQS04	DIODE	1			ļ		-	
D1126	F5KQ40	DIODE	1					L	
D1130	MA7300B	DIODE	1					L	
								Γ	
						1		Τ	
		<del> </del>						1	1
L						L	L	-	

## Memo

## **Panasonic**